



Minimal Art

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TASCHEN

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**“A man climbs a mountain
because it is there.
An artist makes a work of art
because it is not there.”**

Carl Andre

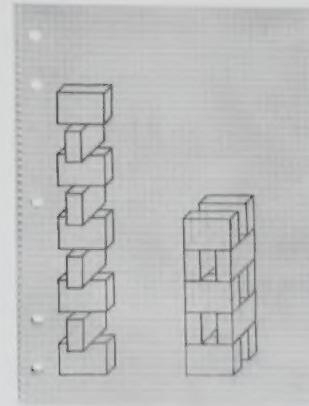
Cover
SOL LEWITT

Wall Structure – Five Models with One Cube (detail)

1965, lacquered steel, 341 x 73 x 30 cm

Berlin, Staatliche Museen zu Berlin – Preußischer Kulturbesitz, Nationalgalerie, Collection Marzona

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minimal Art

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TASCHEN

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"what you see is what you see"

1. FRANK STELLA

Die Fahne hoch
1959, tempera on canvas, 309 x 187 cm
New York, Whitney Museum of American Art



2. CARL ANDRE

Pyramid
1959, original destroyed, reconstructed 1970, wood,
74 pieces, 173 x 79 x 79 cm
Dallas, Dallas Museum of Art, General Acquisitions
Fund and matching funds from The SFAI



An everyday fluorescent tube fastened diagonally to the wall; the "new works" of this hard-to-understand phenomenon: ABC Art, Cool Art, Rejective Art, Primary Structures, Literalist Art were some of the most prevalent. Ultimately they settled on Minimal Art, which was first used by the English art-philosopher Richard Wollheim in 1965. It is however remarkable that Wollheim, in his essay entitled *Minimal Art*, when illustrating his thesis that a minimalization of artistic content had been apparent in numerous works over the previous fifty years, did not adduce as an example a single one of the artists who were soon to be lumped together under precisely this description.

When these "sculptural" works were first put on display in New York galleries in 1963, and a little later in museums, most art critics – not to mention the public at large – were at first totally unprepared for what they saw. The art scene in the American metropolis was at that time still fairly easy to follow: Pop Art was celebrating a triumphal march – at least from the commercial point of view – and, in the form of a major exhibition at the Museum of Modern Art, was at last being consecrated by the high priests of modern art. Otherwise the dominant trends were still the partly abstract, partly figurative painting of the Abstract Expressionists, and what was known as Post-Painterly Abstraction.

The confusion brought about by the seemingly unassuming objects that now burst on to the American art scene is clear enough from the variety of terms used by the critics when seeking to describe Minimal Art (for example, Jo Baer, Robert Mangold, Agnes Martin,

Robert Ryman), from a historical point of view, the movement is one that programmatically transcends painting.

In the strict sense, there are only five artists whose objects, sculptures, and installations can be subsumed under the term Minimal Art: Carl Andre, Dan Flavin, Donald Judd, Sol LeWitt and Robert Morris. On the one hand, the discourse on the artistic movement which later became known as Minimal Art took shape largely in the course of confrontation with the works of these artists, while on the other, it was precisely they, Donald Judd and Robert Morris above all, who first staked out and largely determined the theoretical foundations of the movement.

Another noteworthy aspect is that none of these artists ever agreed to being labelled a "Minimal Artist". Small wonder, therefore, that even today there is no adequate definition of what should be understood by the term, theoretically or aesthetically.

Hitherto, most attempts at defining Minimal Art have been based primarily on an analysis of shared formal features, for example, a reduced formal vocabulary, serialism, non-relational compositional techniques, the use of novel, industrially-produced materials and industrial production processes. However, no comprehensive understanding of Minimal Art is possible without an analysis of the substan-

tial changes that took place between 1945 and 1968, changes that affected not only the way art as such was seen, but also its social status and its accessibility through the media.

Historical Preconditions for Minimal Art – in Painting

It is one of the strangest facts in recent art history that important foundations for the appearance of Minimal Art were developed and implemented in the field not of sculpture but of painting. After all, it was Minimal Art, which, after Russian Constructivism and the Bauhaus of the twenties, once again seriously challenged the supremacy of painting within modern art.

While in the field of sculpture innovations had only slowly become apparent before 1960 (until then most three-dimensional visual art could be related more or less to the structure of Cubist sculpture), the development of American painting took a breathtaking turn after the end of the Second World War. The naive-idealistic glorification of American rural life, as portrayed by, for example, Grant Wood or Thomas Hart Benton, and highly regarded before the war, now lost steam, while avant-garde painting was clearly tending towards

1955 — Signing of the Warsaw Pact
modern art held in Kassel

1955 — West Germany joins NATO
1955 — Billy Wilder makes the film "The Seven-Year Itch"

1955 — First "documenta" exhibition of
1955 — Withdrawal of French troops from Vietnam

1955 — Death of the physicist Albert Einstein
1956 — Suez crisis: Britain, France and Israel attack Egypt

1956 — Death of Jackson Pollock in a car accident

1957 — Soviet Union launches the world's first satellite Sputnik I



3. JACKSON POLLOCK

Blue Poles
1953, oil, lacquer and aluminum paint on canvas,
12.11 x 4.89 m
Canberra, Australian National Gallery

4. JASPER JOHNS

Flag
1954/55, encaustic, oil, collage on cloth,
mounted on plywood, 108 x 154 cm
New York, The Museum of Modern Art, Gift of
Philip Johnson in honour of Alfred H. Barr, Jr.



large-format abstraction. Jackson Pollock (1912–1956) created his first "drip paintings" in 1947. A year later came the first "zip painting" by Barnett Newman (1905–1970), and in 1949 Mark Rothko (1893–1970) painted his first hovering colour field. From the American point of view, the work of these artists had already clearly emancipated itself, in the formal sense, from the European tradition. Even though these paintings could still be seen as subjective colour spaces reflecting the artist's expressive will, at the same time they really did reject traditional techniques of composition.

When these works were created in the late forties, there was no theoretical framework by which their worth could be judged, so that an appropriate critical language had to be developed in parallel. It was to fail to the art-critic Clement Greenberg and a few others, including Harold Rosenberg and Meyer Schapiro, to provide, in numerous essays, the theoretical foundation for these novel forms of abstraction. While Harold Rosenberg focused his attention on the creative act with all its effects in relation to the artist's subjective state, Clement Greenberg argued on a strictly formalistic plane. The immediacy of the new pictures aroused his enthusiasm from the start, and within a few years he had developed one of the most influential theories of modern art, in particular modern painting. During the fifties,

his theory, which quickly came to dominate the way in which American abstraction was received, along with his regularly published reviews, made a major contribution to the success of particular positions in painting. For many of the Minimal artists, Greenberg's theory served as the starting point and matrix of a critical investigation.

In unmistakable affinity to the epistemological theory of the German philosopher Immanuel Kant (1724–1804), Greenberg maintained the opinion that it was the responsibility of every artistic genre to subject its own elemental conditions to critical questioning, in order thus to develop its essential features. The "all-over" concept – a flat picture-surface to which paint, reaching to the borders of the canvas, has been evenly applied, thus not emphasizing any one part of the picture while at the same time flattening the pictorial space – seemed to him best suited to revealing the "essence" of painting. Illusionism was to be avoided if at all possible, and figurative painting was to be seen *a priori* as relatively inadequate.

The purely formal arguments employed by Greenberg were later to become an important target of Minimalist criticism. However, the rupture between Minimal Art and modern art à la Greenberg came about rather as a result of the Minimal artists' rejection of the normative character of his aesthetic and his somewhat rudimentary recep-

tion theory, which seemed to assume that in some inexplicable fashion, works of art emanated a significance that could only be understood intuitively by just a few initiates in a context divorced from the constraints of time and space.

the Picture as object

Jasper Johns (b. 1930) and Robert Rauschenberg (b. 1925) were among the first artists, who, with their fifties works, challenged the various forms of Abstract Expressionism. Rauschenberg's *Combines* and Johns' *Targets* and *Flag Paintings* bore witness to a new way of thinking about pictures. In these figurative works, the painting was accorded the status of an object that shared the beholder's space. Instead of looking into the picture, or being embraced and overwhelmed by a large-format expanse of colour, the viewer was constrained to look at the surface of a flat picture. In addition, Johns' works at least could no longer be interpreted as the expression of the artist's emotional or psychological state. In his painterly appropriation of the "ready-made" strategy formulated by Marcel Duchamp (1887–1968), Johns emphasized the separation between the work

on the one hand, and the subjective artist on the other. An admittedly somewhat eccentric and abbreviated reading of Duchamp's ready-mades had led him to the insight that the famous *Bottle Dryer*, which Duchamp selected in a Paris department store in 1914 and declared to be a work of art, could say little about the emotional state of the artist, who had after all only selected it, and not created it himself. In analogous fashion, and in the spirit of this logic, the ready-made motifs used by Johns in his painting were intended to undermine the need for self-expression on the part of the artist.

In the late fifties painters such as Kenneth Noland (b. 1924) and Frank Stella (b. 1936) began to radicalize the ideas developed by Johns in the field of abstract painting. In 1958/59 there appeared a series of pictures that were to play an important role in the development of Minimal Art. Frank Stella, who at this time shared his studio with Carl Andre, was working on his *Black Paintings*, which in their simplicity and lack of expressivity consistently ignored traditional questions of painterly composition. Stella used a house-painter's brush and commercial enamel paints to create black stripes of identical width which evenly covered the whole pictorial space in a graphic pattern laid down precisely before he started. In the narrow spaces between the stripes, the unpainted canvas remained visible, as did the

1957 — In the USA federal troops enforce racial integration in public schools
1958 — Fifth Republic inaugurated in France under General Charles de Gaulle

1957 — Britain announces it has the hydrogen bomb
1958 — "EXPO 58" world fair in Brussels

1958 — Playwright Samuel Beckett publishes "Endgame"
1959 — Boeing 707 jet airliner reduces flight time from Paris to New York to eight hours

1958 — Mies van der Rohe builds Seagram Building in New York



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"Half or more of the best work in the last few years has been neither painting nor sculpture."

Donald Judd

5. BARNETT NEWMAN

Vir Heroicus Sublimis

1950/51, oil on canvas, 242.2 x 513.6 cm
New York, The Museum of Modern Art,
Gift of Mr. and Mrs. Ben Heller

6.

Minimal Art

Exhibition catalogue Kunsthalle Düsseldorf, 1969

guidelines drawn with pencil and ruler. In this way, Stella developed what he called a non-relational design principle, which he declared to be elementally American, and which he set up in opposition to the European painting tradition. By stretching his canvases on supports a few centimetres broader and dispensing with a frame, Stella seemed in addition to emphasize the sculptural aspect of his pictures. This tendency was reinforced in the *Shaped Canvases* which appeared between 1960 and 1962, in which the internal structure of the picture often coincided completely with the shape of the support, and indeed seemed to be derived from it.

These early pictures by Stella are so important for the development of Minimal Art because on the formal plane, they anticipate features which a few years later were to return in the three-dimensional objects of the Minimalists, such as the use of materials and production techniques hitherto unknown to art, and a meticulous plan laid down before the execution of the work, leaving little room for chance during the implementation stage. In addition – and this is perhaps still more important – in his works Stella radicalized the anti-illusionist tendencies within American painting to an almost unsurpassable extent

tion. "What you see is what you see," was the famous tautology in which Stella summed up his concerns as a painter.

Although central aspects of Minimal Art in the late forties and fifties were pioneered in painting rather than sculpture, this does not mean that in Minimal Art a purely American painting tradition in the sense of an anti-subjectivist reduction process was simply taken up and continued seamlessly in the field of sculpture. That recourse was made to the path taken by American painting after the end of the Second World War may well be a sign of the cultural climate, and it may make certain intellectual associations clear, but the pedigree of Minimal Art cannot be derived so simply as this. The assertion that Minimal Art had adopted formal elements of Abstract Expressionism and its successors and merely subjected the aesthetic-theoretical superstructure to a revaluation is an unacceptable simplification. Among other things, it passes over the fact that with Minimal Art, the traditional view of sculpture and painting as narrowly defined genre concepts was subjected to a thoroughgoing examination.

The idea of the picture as object seemed to have run through all its potential fairly quickly, and thus played out, for many artists it soon lost its charms. In about 1963, Dan Flavin, Donald Judd and Sol

LeWitt turned away from painting to concentrate on working on and with objects in real space. This movement away from the wall into the room gave rise to an art that could no longer be harmonized with the traditional conventions of Modernism. For while painting, because of its multiple ambiguous pictorial space and inevitable illusionism, was rejected and abandoned as being ultimately inadequate, Minimal Art rejected the foundations of modern sculpture perhaps even more clearly. The three-dimensional works of Andre, Flavin, Judd, LeWitt and Morris refer neither metaphorically nor symbolically to anything beyond themselves, and can no longer be translated back into anything pictorial.

By emphatically concentrating on the concrete experience and perception of the work in question in its specific context, Minimal Art rejected a metaphysics of art and thus not least changed the role of the beholder, who was no longer required, in an act of silent contemplation, to reflect on the unchanging significance of the work of art hanging or standing in front of him, but rather to actively perceive the work which was sharing his space, to reflect on the process of this perception, thereby charging it with significance.

upheavals – transformations of the object

Although the five central artists of Minimal Art are all part of the same generation, and have all without exception lived in New York at the latest since the early sixties, they have executed their respective œuvres in relative independence one of another and on the basis of undoubtedly different preconditions and positions. Their artistic approaches, if compared on formal and conceptual planes, at once evince at least as many differences as similarities, and can be clearly demarcated one from another.

In what follows, we shall discuss the early development of each artist until about 1968. This was the year that witnessed the opening of the touring "Minimal Art" exhibition curated by Enno Develing for the Gemeentemuseum in The Hague, which shortly afterwards was also to be seen in Düsseldorf and Berlin. In the USA, Minimal Art was already established by this date, and was undergoing its first assaults, which were not long in coming in Europe either, albeit from a different perspective. With respect to Minimal Art, the year 1968 can be seen as a twofold historical caesura. On the one hand, it established itself as a museum-worthy movement in Europe too, and on the other, the artists generally assigned to it had by then either fully

1959 — German novelist Günter Grass writes "The Tin Drum"
1960 — Start of ten-power disarmament conference in Geneva; East and West reject each other's proposals

1959 — French Nouvelle vague film director Jean-Luc Godard makes "Breathless"

1960 — German architect Hans Scharoun builds the Philharmonie in Berlin
Niemeyer starts building the new Brazilian capital Brasilia

1960 — Brazilian architect Oscar Niemeyer starts building the new Brazilian capital Brasilia
1960 — Alfred Hitchcock makes the film "Psycho"



**"Art is what we do.
culture is what is done to us."**

Carl Andre

developed the foundations of their work or else abandoned the Minimalist discourse.

carl andre

It is true that Carl Andre has always emphasized the importance of Frank Stella's *Black Paintings* for his own work, but unlike that of most of the artists normally reckoned as working within Minimal Art, his early work did not develop primarily as part of a critical confrontation with painting. He was concerned with the sculptural tradition, taking an interest above all in the work of the Romanian sculptor Constantin Brancusi (1876–1957) and later the pioneering work of the Russian Constructivists. It was for this reason that, alone among the Minimal artists, he retained, without any ifs or buts, the term "sculpture" for his own work.

After moving to New York in 1956, Andre spent the years up to 1959 on relatively shifting sands, working as a poet, the author of dramatic short stories, a draughtsman, and the designer of mysterious small sculptures of Plexiglas and other, mostly found, materials. In 1958 he met Frank Stella, and from then on, Andre concentrated first

and foremost on sculpture. There quickly developed a close friendship between the two artists, and soon they were sharing Stella's studio on West Broadway. This was the birthplace of Andre's first two large sculptures, *Last Ladder* (1959) and *Pyramid* (1959). While *Last Ladder*, formed from a wooden beam, unambiguously points in its repetitive structure and form to an intense interest in Brancusi's sculpture, in particular his *Endless Column* dating from 1937/38, *Pyramid* by contrast already seems to reflect the lasting influence of Stella's pictures. The two pyramids, placed one on top of the other apex-to-apex, are derived from identical wooden beams, and represent a transfer of Stella's modular technique to sculpture. The individual components of *Pyramid* were not worked by Andre to give them further shape, but unlike all his later works, they are fitted into each other, and thus connected.

In 1960 Andre, with the *Element Series*, conceived a group of works which already exhibit important aspects of his mature œuvre. As in the early sixties Andre did not have the money to execute his concept; the *Element Series* existed for more than a decade as no more than a series of pencil drawings on squared paper: different configurations of identical rectangles. Only in the early seventies was Andre able to execute eight selected concepts. Identical, industrially-



7. CONSTANTIN BRANCUSI
The endless column
1937/38, cast iron and wood, height 28.55 m
Târgu Jiu, Romania

8.
Carl Andre during the installation of his exhibition
at the Dwan Gallery, New York, 1969

produced blocks of wood are combined into simple structures, the individual elements being held in place by the force of gravity alone. The spectrum of sculptures belonging to the *Element Series* ranges from *Herm*, a single vertically upright beam, via *Inverted Tau*, an inverted T formed of two beams, to *Pyre*, a cuboid consisting of eight blocks placed one on top of the other.

With the use of prefabricated materials, the unconnected (Andre's term was "clastic") arrangement of individual identical elements within each work, and the limitation to relatively simple basic shapes, the *Element Series*, conceived in 1960, already evinces three important characteristics which we find in Andre's work to this day. Two others were added in the mid-sixties. In 1966 Andre displayed *Lever* in the "Primary Structures" exhibition. This consisted of a line, nearly nine metres in length and with one end against a wall, of 137 beige bricks, placed with their long sides juxtaposed. Designed specially for the exhibition site, *Lever* was the first of Andre's sculptures to relate unambiguously to the floor, and to emanate its effect from the floor into the exhibition room. The same year, Andre incorporated the entire floor of the Tibor de Nagy Gallery in New York as an integral part of the *Equivalent Series*. Eight different formations of 120 bricks each of two layers one on top of the other covered the floor of the

gallery, the free floor space between the individual structures being no longer perceptibly separable from the work itself.

Since 1967, Andre has used prefabricated thin, mostly square, metal plates, which he has laid out into squares or linear formations, arranged according to simple mathematical principles.

When in 1967, on the occasion of his first European exhibition, "Ontologische Plastik", Andre covered the entire floor of the Konrad Fischer gallery in Düsseldorf with steel plates, many anxious visitors asked where the art actually was. The gallery owner, amused, was forced to point to the floor. The art was beneath their feet, unnoticed. Lying flat on the floor, and with no "Keep Off" signs, these works appear, by taking possession of a site, to have had the entire interior space pressed out of them. The site is thereby redefined. Thus these works are deprived for the first time of a characteristic of modern sculpture hitherto thought to be essential: their volume. Instead, they emphasize both their existence as mass and at the same time the specific qualities of the materials used. These are deployed in ways alien to their standard utilization, and are perceived all the more clearly in consequence. By not forcing the basic materials he uses into their final shapes by such traditional techniques as welding, moulding or carving, Andre expresses his rejection of a concept of sculpture in

1960 — The Nouveau Réalisme art movement appears in France
1961 — Democrat John F. Kennedy becomes President of the USA

1961 — Writer Ernest Hemingway commits suicide
1961 — East Germany starts building the Berlin Wall on 13 August

1961 — Contraceptive pill comes on to the market
Hamburg "Star Club"

1961 — First Soviet manned space flight: Yuri Gagarin orbits the earth on 12 April



“...my own proposal has become mainly an indoor routine of placing strips of fluorescent light. It has been mislabeled sculpture by people who should know better.”

Dan Flavin

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9.
Dan Flavin in his office, 1968

10. DAN FLAVIN

Untitled (to Henri Matisse)
1964, pink, yellow, blue and green fluorescent light,
244 x 25.4 x 12.7 cm
New York, Solomon R. Guggenheim Museum



10

11. MARCEL DUCHAMP
Fountain
1917/1964, readymade, urinal made of porcelain,
61 x 48 x 36 cm
Private collection



11

which the materials are refined. In Carl Andre's work, a particular material remains what it is, and points to nothing beyond itself.

With the use of identical units, Andre also succeeds in avoiding the hierarchy problem of traditional sculpture. For if all the elements in a work are identical, and of equal importance for the generation of its total form, there can no longer be any centre and or any periphery within the work. Further, this observation is in accord with the fact that there is no longer any ideal position from which to view these new sculptures.

Almost always conceived for a particular exhibition situation and mostly installed by the artist himself, the works in metal executed in 1967/68 complete a re-definition of sculpture, one which gradually arises from the work itself, described by Andre as follows: “The course of development: / Sculpture as form / Sculpture as structure / Sculpture as place.”

In the winter of 1961, the young artist had worked through enough art-historical role models, and in the form of a series of mysterious wall objects which he called *Icons*, set out for new pastures. These *Icons* are boxes attached to the wall, mostly painted in one colour, to whose sides Flavin fastened various kinds of lightbulbs and fluorescent tubes. These first experiments with artificial light obviously take up what was then the widespread trend toward the “picture as object”, but at the same time they already point beyond it. For to the extent that the electric light seems to dissolve the shapes of the *Icons* while radiating into the room, some of

enrolled as a student of art-history at the Hans Hoffman School and the New York School for Social Research. Two years later, he took courses in art-history and drawing at Columbia University in New York.

It was during this period that he made the decision to devote himself exclusively to art. Between 1958 and 1961, Flavin produced a comprehensive collection of water-colours, Indian-ink drawings, calligraphic poems, and paintings which were all still clearly rooted in the tradition of Abstract Expressionism. It was above all the gestural Expressionism of Franz Kline (1910–1962) and Robert Motherwell (1915–1991) that seemed to have left the deepest marks on Flavin's work during these years.

Flavin's artistic use of readily available existing lighting elements was initially discussed primarily in the context of “ready-mades”. This was in accordance with the spirit of the times, as becomes clear when one remembers that the work of Marcel Duchamp was not fully appreciated until a major retrospective at the Pasadena Art Museum (since 1975 the Norton Simon Museum of Art) in 1963; in other words, exactly 50 years after the selection and naming of his first ready-mades. However, the relationship between Flavin's works and those of the great sceptic of modern art is ultimately superficial.

Unlike Duchamp, who in 1917, for example, under the pseudonym of R. Mutt submitted a urinal for an exhibition under the title *Fountain*, in order to draw attention to the questionable nature of any normative definition of art – whereby he stimulated endless reflections on the boundary between art and non-art – Flavin does not use his fluorescent tubes as objects to demonstrate any theory of art. For him, the ready-mades simply serve as formal elements of his art. In Flavin's work, the ready-mades no longer function as a kind of anti-art gesture, but form the starting point and at the same time the exclusive medium of an innovative design process.

After Flavin had exhibited his *Icons* along with a few fluorescent-tube works at the Kaymar Gallery in the spring of 1964, his second solo exhibition in November of that year, at the Green Gallery in New York, already consisted entirely of arrangements of fluorescent tubes, which were distributed around the gallery in a meticulously planned fashion. Works such as *Untitled (to Henri Matisse)* and *A Primary Picture* (both dating from 1964) still seem to be rooted in the pictorial tradition. Flavin soon realized, however, that his system was ideally suited to a relationship between the works and the space in which they were exhibited, allowing perceptions of the latter to be altered.

DAN FLAVIN

Dan Flavin's work developed in a far less straightforward manner than that of most of his fellow Minimalists. After he returned to New York in 1956 after military service in Korea, Flavin at first

1962 — Cuban crisis

1962 — First US manned space flight

1962 — Death of Marilyn Monroe

1962 — Launch of Telstar, the world's first communications satellite

1963 — Start of the Fluxus art movement in Germany

Pasadena Art Museum (USA)

1963 — First Marcel Duchamp retrospective at the

Assassination of John F. Kennedy in Dallas, Texas

"I knew that the actual space of a room could be disrupted and played with by careful, thorough composition of the illuminating equipment. For example, if a 244 cm fluorescent lamp be pressed into a vertical corner, it can completely eliminate that definite juncture by physical structure, glare and doubled shadow."

Dan Flavin



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12. DAN FLAVIN

An Artificial Barrier of Blue, Red and Blue Fluorescent Light (to Flavin Starbuck Judd)

1968, neon tubes, each 64 x 125 cm, length c. 17 m
New York, Solomon R. Guggenheim Museum,
Collection Panza

13.

Exhibition Donald Judd

View of installation, Whitney Museum of American Art, New York 1968



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From 1966 onward, Flavin's works became increasingly site-specific and installation-like. He conceived gallery and museum exhibitions consistently to take account of the architectural particularities of the site in question. It is an astonishing experience to see the transformation of an exhibition room in which Flavin has meticulously positioned his different-coloured fluorescent tubes – corners overlap, appear double, or seem to dissolve, whole corridors come across as fluorescent tubes as "image-objects". The extent to which his project had moved away from the classical categories of art was expressed in more unmistakable terms by Flavin himself than by anyone else: "I feel apart from problems of painting and sculpture but there is no need to re-tag me and my part. I have realized that there need not be a substitute for old orthodoxy anyhow."

Flavin's installations not only have their effect on the architecture, they also inexorably integrate the beholder. They no longer put across to the viewer the feeling that he is facing a visible object, but rather that he himself is a light-bathed component of a visually perceivable situation. The decisive moment in this perceptual structure lies not so much in the participation of the beholder, as in the realization that the visible is, on principle, seen not from without, but from within.

donald judd

After Donald Judd had completed his military service in Korea in 1947, he moved to New York in 1948, where he first enrolled at the Arts Students League. A year later, he supplemented his study by attending courses in art history and philosophy at Columbia University. It was not until 1962 that he eventually graduated with a master's

1963 — Serious race riots in Birmingham, Alabama

1963 — Kodak launches first camera with cartridge-loaded film, the "Instamatic"

1963 — Swedish film director Ingmar Bergman makes "The Silence"

1964 — Labour government elected in Britain

degree in Art History, having studied for a total of 15 years with a few interruptions.

During the first few years of his academic training, Judd still painted conventional landscapes and portraits. Toward the mid-fifties, his painting became increasingly more abstract, the motifs, such as gardens and bridges, came across as alienated, but without losing their figurative character entirely. 1957 saw the appearance of his first purely abstract pictures, which he exhibited at the Panoras Gallery in New York, and later disparagingly referred to as "half-baked abstractions". His breakthrough on the road to overcoming any form of illusionism came only in 1961, with pictures that mostly depict simple formal elements on a monochrome background.

By mixing his oil-paints with sand and in some cases placing objects in a central position on his canvases, he gave additional emphasis to the surface of his pictures and to their sculptural identity. In 1962 he produced the first of his mural reliefs, still painted in oils, but just a year later he finally abandoned painting in favour of work with three-dimensional objects. It is extraordinary that the development of his œuvre between 1957 and 1963 took place almost entirely *in camera*. For more than five years, Judd refused every offer to exhibit his works in public. During this period, most New Yorkers with

any interest in art were familiar with the name Judd more as an art critic than as an artist. His reviews, which appeared regularly from 1959 to 1965 at first in "Art News" and then in "Art International" and "Arts Magazine", were notorious for the abrasiveness of their prose style.

In December 1963, the Green Gallery staged Judd's first solo exhibition, after he had already been involved in group exhibitions at the same gallery in the spring of that year. Alongside a few mural reliefs, Judd exhibited a total of five objects, which were all placed directly on the floor. Judd had made them all by hand, using mostly plywood and metal components, and painted them in a uniform colour – cadmium red light. The box shape, which he later used time and again in different versions, was already present here in two works of almost identical format. On the top of a rectangular box he had inserted a metal tube, while in the same place on a second box semicircular grooves fan out at proportionally increasing intervals.

The total impression created by the exhibition at the Green Gallery in respect of material, colour and form was remarkably homogeneous, and altogether programmatic. Even at this early stage, it revealed an irreversible movement away from painting and towards

1964 — Formation of the Palestine Liberation Organization (PLO)

1964 — Start of Vietnam War

1964 — Jean-Paul Sartre refuses Nobel Prize



**"Yes. The whole's it.
The big problem is to maintain
the sense of the whole thing."**

Donald Judd

14

Invitation to the exhibition "Graphis"
Leo Castelli Gallery, New York 1968

15.

Donald Judd in his studio, New York 1970

16.

Exhibition Donald Judd
View of installation, Leo Castelli Gallery
New York 1968

work in three dimensions, extending into real space. Although clearly derived from painting, the exhibited objects and reliefs bore witness to the fact that Judd's analysis of the conditions of painting led to the conclusion that ultimately this genre was untenably illusionist and naturalistic; this was before he had formulated his ideas on the subject in interviews or in his famous essay "Specific Objects". Instead of suggesting an illusory space, Judd wanted to employ a truly abstract art to use and define real space.

The reaction of the critics was mixed. Brian O'Doherty described the exhibition in the "New York Times" as "an excellent example of 'avant-garde' nonart that tries to achieve meaning by a pretentious lack of meaning", while other critics even claimed to discern figurative references in the objects. But Judd was not deterred, and unperturbed, struck out further along the road towards an art which encompassed space. Not entirely convinced by the look of his handcrafted works, in 1964 he began to exploit the potential of industrial production techniques by commissioning the family firm of Bernstein Brothers to manufacture his objects. From now on, figurative references disappear entirely from his work, leaving an abstract-geometric art of cool elegance, from which all subjectivism, any personal signature, seems to have been exorcized. Various mater-

ials, like differently coloured Plexiglas and a range of colours, were combined in ever changing variations and forms. New production techniques also enabled him to dispense with painting entirely, their colour now being an integral element of the respective object, inseparably fused with its surface.

That an artist should use industrial products to create art, in other words transfer the creation of a work of art from the workshop to the factory, was by no means either usual or generally accepted. It was in the mid-sixties. At a podium discussion at the Whitney Museum, Mark Di Suvero could attack Judd, and without any qualms, in a similar way, with the words "I think that my friend Donald does not qualify as an artist because he doesn't do things by hand". Ingrained in the artist's mind was the idea that "the hand is the way to order to be an artist". The constantly repeating question "Is it art?" – namely that it wasn't art, is here linked to the question "Is it hand-made?", to the fact that there was in it not enough "hand".

Minimalist objects were not made by hand, but by machine. These arguments are related in origin: the absence of hand-made elements in the work that points to the subjective, the artistic, the personal. In cases seen as a shortcoming, Judd soon went to work. He had the machine-made-to-measure tailoring of the architect Le Corbusier in mind,

possibilities of serial mass production and constructing his works from identical components which at first consisted of simple horizontal rows. 1965 saw the appearance of his first *Stacks*, in which metal boxes were attached to the wall at equal intervals in a vertical column. A little later, Judd had coloured transparent Plexiglas inserted into the tops and bottoms of the metal boxes of his *Stacks*, which made their perception considerably more complicated.

Alongside the multi-component works, between 1964 and 1968 Judd continued to work on one-part monochrome mural reliefs, in which the surfaces reveal projecting elements, the gaps between which get bigger or smaller according to mathematical principles which are not immediately apparent. The – for Judd – essential element of holism in his objects was in his view independent of whether the work consisted of one part or more. As long as there was no element of hierarchical composition or any unnecessary details in a work, it could be put together from a number of components without losing its perceptual unity. Even Judd's early work reveals an amazing variety of design possibilities. It is based not on systems set up *a priori*, but derives rather from a fascination with the unitary apparition of colour, shape, and material in the given space.

SOL LEWITT

Sol LeWitt arrived in New York in 1953 after completing his art studies at Syracuse University with a bachelor's degree and doing his military service in Japan and Korea. In his first few years in the city, he earned his living as a graphic artist, and later as a draughtsman for the architect I.M. Pei. At the end of the 1950s, LeWitt still thought of himself as a painter, and worked in the Abstract Expressionist style.

In 1960 he took a job at the Museum of Modern Art, where he met the artists Dan Flavin, Robert Mangold, Robert Ryman and the critic Lucy R. Lippard, who were also employed there. His artistic work now began to undergo a visible change. In 1961/62 LeWitt developed the first austere geometric monochrome *Wall Structures*, strange objects of painted wood which occupy a place somewhere between paintings and reliefs. At the same time he worked on pictures which integrated text and pictograms, and whose garish colours pointed at least to a passing acquaintance with the stylistic means employed by Pop Art. A year later, LeWitt's work visibly liberated itself from the wall and proceeded towards the third dimension in the form of simply structured objects in a group exhibition organized by Dan Flavin at the Kaymar Gallery in 1964. LeWitt displayed two works

1965 — Death of the architect Le Corbusier

1965 — Increased US military engagement in Vietnam

1965 — Assassination of the Civil rights activist Malcolm X in New York

1965 — Development of the computer programming language Basic

1966 — Various West German student organizations form the "Extra-Parliamentary Opposition" in response to the Grand Coalition government

1966 — Michelangelo Antonioni makes the film "Blow Up"

"You see a shape - these kind of shapes with the kind of symmetry they have - you see it, you believe you know it, but you never see what you know, because you always see the distortion and it seems that you know in the plan view."

Robert Morris



nia School of Fine Arts. He lived in San Francisco – apart from a two-year break for military service at Reed College in Oregon – until moving to New York in 1960. In the second half of the 1950s, Morris was active in San Francisco both as a painter and as a member of the avant-garde dance ensemble led by Ann Halprin. Here he got to know Simone Forti and Yvonne Rainer, who moved with him to New York in order to join the Judson Dance Theater. In 1961 he began to study the history of art at Hunter College, graduating in 1966 with a master's thesis on Constantin Brancusi. In New York he soon took up sculpture alongside dance. The first apparently "Minimalist" works, such as *Column*, appeared in 1961, albeit still on the periphery of the Fluxus movement. Originally intended for publication in a Fluxus anthology, and later withdrawn by the author, he composed the statement "Blank Form" at this period:

"Some examples of Blank Form sculpture:

1. A column with perfectly smooth, rectangular surfaces, $2 \times 2 \times 8 \text{ ft}$ ($61 \times 61 \times 244 \text{ cm}$), painted grey.
2. A wall, perfectly smooth and painted grey, measuring $2 \times 2 \times 8 \text{ ft}$ ($61 \times 61 \times 244 \text{ cm}$).

In contrast to the artists already discussed, it is impossible in the case of Morris between 1961 and 1964 to talk either of an artistic breakthrough or of a logical development in his work. For years he worked both on austere geometric objects, emphasizing simplicity, and on objects which often either referred to the production process or else used a paradoxical combination of object and object to question traditional ideas of representation. Thus, *Box with the Sound of Its Own Making* (1961) was a cube of walnut wood containing a cassette-recorder which produces a three-hour recording of the noise made while the box was being created. In this box, the past (the sound of the machine) and the present (its condition while being viewed) and the process and the object itself, fuse in a curious way. A work in the process side of art finds expression in virtually nothing.

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After this period of relative quiet, Morris returned to his austere objects. At the end of 1964 he exhibited his first "Blank Form" series. After taqed his much-vaunted "Fluxus" show at the Judson Church in December of the following year, he presented a series of minimalist structures. A total of seven sculptures – until 1968 "Blank Form" – self referred to his works as sculpture – were distributed around the rooms of the gallery, and in some cases made direct reference to the architecture of the exhibition space. The *Wall* (*Wall*) was a rectangular panel made of plywood, and painted light grey. *Untitled (Cloud)* was a large square suspended about two metres above the floor, also from the ceiling. *Untitled (Corner Piece)* was a triangular item, taking up one corner of the room, while a further work in the form of a beam occupied the space above head-height between two walls in the entrance hall. In the approximate centre of the gallery, a rectangular shape of considerable length was laid on the floor parallel to the walls. All of the objects were placed in such a way that the beholder could comfortably walk around them. The simple forms and the unadorned grey in which they were painted gave the works, if anything, a visually uninteresting appearance. Their placement, and the absence of internal relationships, seemed conversely to emphasize their relationship to the beholder and to the room. Morris, and this was new in the context

of the minimalist movement, had created a situation in which the object, the beholder and the room were all equally important. The artist had taken his much-vaunted "Fluxus" show at the Judson Church in December of the following year, he presented a series of minimalist structures. A total of seven sculptures – until 1968 "Blank Form" – self referred to his works as sculpture – were distributed around the rooms of the gallery, and in some cases made direct reference to the architecture of the exhibition space. The *Wall* (*Wall*) was a rectangular panel made of plywood, and painted light grey. *Untitled (Cloud)* was a large square suspended about two metres above the floor, also from the ceiling. *Untitled (Corner Piece)* was a triangular item, taking up one corner of the room, while a further work in the form of a beam occupied the space above head-height between two walls in the entrance hall. In the approximate centre of the gallery, a rectangular shape of considerable length was laid on the floor parallel to the walls. All of the objects were placed in such a way that the beholder could comfortably walk around them. The simple forms and the unadorned grey in which they were painted gave the works, if anything, a visually uninteresting appearance. Their placement, and the absence of internal relationships, seemed conversely to emphasize their relationship to the beholder and to the room. Morris, and this was new in the context

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1967 — Media theoretician Marshall McLuhan publishes "The Medium is the Message"

1967 — Land Art movement inaugurated in the USA and Europe

1967 — Arte Povera movement inaugurated in Italy

1967 — Six-Day War between Israel and Egypt

during visit by Shah of Iran

1967 — Student Benno Ohnesorg shot in West Berlin

1967 — South African surgeon Christiaan Barnard performs first human heart transplant



22 ROBERT MORRIS

Untitled, L-Beams

1966

23

Primary Structures

L-Beams, 1966
Steel, paint

22



ROBERT MORRIS

Primary Structures

1966

Steel, paint

1966

In 1966 Morris translated the idea of constantly changing situation-dependent perception into the conception of a series of works whose appearance itself now constantly changed. These differed from the objects whose shape and size are clearly defined to the extent that they were composed of elements some of which were identical and some not. During the exhibition at the Leo Castelli Gallery in March 1967, Morris changed the spatial arrangement of the individual components every day. In the process his concern was to ensure that the respective arrangements could always be perceived as a totality in the sense of a Gestalt to which the individual elements were subordinated. In works such as *Untitled (Stadium)* the process of perception corresponds to the process of design with respect to the respective unfinished nature and variability of the piece. In a certain sense, Morris's "variable" works already herald the exit from "Minimalist" object art which manifested itself in 1968 in the form of his felt pieces and his article titled "Antiform". While in his 1966 "Notes on Sculpture" Morris had still described form as the most essential characteristic of sculpture, he now wrote: "Disengagement with preconceived enduring forms and orders for things is a positive assertion. It is part of the work's refusal to continue estheticizing form by dealing with it as a prescribed end." The way was free for a new aesthetic in

which the work was not regarded as the end product, but as a starting point of an art seen as an open process.

POP ART VERSUS MINIMAL ART

The New York art scene in the 1960s was dominated by everyone knew everyone else. There were a total of about 150 galleries at the start of the decade (one hundred of them young contemporary artists in their exhibition program). The market was not over-active, prices for works even modestly priced were moderate, and sales were in any case few.

The work of the Abstract Expressionists – Jackson Pollock, Willem De Kooning, Mark Rothko and a few others – had established itself on the market; this or, rather, the market had established itself on the work. After it had achieved international recognition, however, in contrast, it was well nigh impossible to sell.

In 1962 Pop Art became the first "new" movement to be granted a generation to enjoy substantial success with the opening of progressive galleries displayed the new art. The first major exhibitions, which received an amazing response, were held in

and da, newspapers B, 1963 and 1964, the trend was considerably promoted and acknowledged through numerous magazine publications. Although the first Minimalist works had appeared at more or less the same time as those of the Pop artists in the early 1960s and made their gallery debut only one year later in 1963 (Richard Bellamy exhibited Pop Art, Neo-Dada, and Minimalist objects together at several exhibitions at his Green Gallery in 1963), it took a relatively long time for them to achieve recognition at the institutional level. After a few presentations in smaller museums outside New York, Minimal Art's definitive breakthrough only came in 1966 with the "Primary Structures" exhibition in New York's Jewish Museum.

The early success of Pop Art had had a lasting effect on the climate within the New York art business. New trends in American art now began to enjoy a hitherto unheard-of degree of publicity. Suddenly it came to be of enormous importance who was exhibiting what where, and who was writing what and where about these exhibitions. Alongside the arts pages of the daily newspapers, the three arts magazines "Arts", "Art International", and "Artforum" kept their clientele up to date on the new trends. Even fashion magazines such as "Harper's Bazaar" devoted multipage articles to the new style of New York creative talents. Within a short time, this change of public mood resulted

in considerable growth in the market for Minimalist art, and in particular, Neo-Dada, Primary Structures, and Minimalism, which, being then more or less postmodern, were not yet accepted by the traditional art world as competitor, and could therefore easily benefit from a favorable climate.

THE CANONIZATION OF MINIMAL ART BY CONSERVATIVE CRITICS

In spite of not having a clear theme, at first it was the minority art that took part – the "Primary Structures" exhibition, for example, was extremely, after the failing, rather late, and rather reluctantly, accepted by the art world. The "Minimalist" were known mainly, due to the illustrated magazines and arts pages of "Artforum", "Primary Objects" by Donald Judd and "Notes on Sculpture" by Robert Morris made it clear to everyone by the end of 1966 that there were two largely incompatible interpretations of this new art: one work, revealing Judd and Morris as opposing theoreticians of the new movement. In this situation, the creative critics reacted with variously different premises:

1968 — Assassination of black civil-rights leader Martin Luther King in Memphis, Tennessee

1968 — Suppression of the "Prague Spring" by the Soviet military

1968 — US soldiers massacre Vietnamese villagers in My Lai

1968 — Major student unrest in Germany, France, Belgium, Japan, Mexico, Yugoslavia and Poland; attempt on life of student leader Rudi Dutschke in Berlin

1968 — Stanley Kubrick makes the film "2001 – a Space Odyssey"

steel-magnesium Plain

Steel and magnesium, 36 parts, each 9.53 x 30.5 x 30.5 cm, overall 9.53 x 182.88 x 182.88 cm

Private collection

"what my sculpture has in common with science and technology is an enormous interest in the features of materials."

Carl Andre



b. 1935 in Quincy (MA)

Like almost no other artist of his generation, Carl Andre developed and built on his work with great consistency. Within just a few years, from 1958 to 1966, he prepared the basis of his artistic approach, starting with hand-worked wooden sculptures and going on to floor-related works that completely involve their surroundings. In early interviews and statements Andre declared that he was interested in "sculpture as place", and having achieved this he developed his oeuvre within parameters he

Because of the surface structure of the two metals, the combination of steel and magnesium seems as if it were made of aluminium or copper; they do not brightly reflect the light. Magnesium in appearance, the element in Steel-magnesium Plain seems to move closer together; the plain adds nothing to the room, leaving room to it, while at the same time seeming to reinforce its solid, opaque, cohesive character.

The work appears to have clicked in with the architectural structure of the surrounding room so that one's perception of space is being revaluated. As a result, it is difficult for the beholder to make figurative references in these ground sculptures to Alberto Giacometti and the plinth by Alberto Giacometti (1901). These figures seem depopulated, or else seem to have disappeared. They have compensated for this strict reduction of the personified space by the steel and magnesium tiles. While the greyish-white and greyish-brown metal are the new elements of perception.

Magnesium Plain inevitably integrates its surroundings and is an integral component of the space. The beholder to a certain extent collaborates more actively than usual in experiencing this work by being challenged to walk up to it, to enter the exhibit space, and also to walk on the concrete work.

defined himself. Andre's concept of "sculpture as place" can be regarded as extremely modern, although it also has archaic features. Andre grew up in Quincy, a small town on the Massachusetts coast that has many abandoned quarries around it. In 1954 he travelled throughout England visiting several historical sites, including Stonehenge. Many of Andre's outdoor sculptures exhibit references to the elementary simplicity of such stone-age monuments, for example, his *Stone Field Sculpture* (Hartford, Connecticut, 1977); here 36 heavy, up to eleven-tonne ice-age erratic blocks cover a large lawn area.

Steel-Magnesium Plain consists of 36 square steel and magnesium tiles laid in a square. The plain starts at one corner with a steel tile beside which the other tiles are placed alternately, resulting in a chessboard pattern. This sculpture is one of Andre's *Plains*, 36 elements in two different metals, 18 of each, which the artist arranges in a square. Due to the different materials, each work makes a different impression despite the same configuration of 36 tile



Alberto Giacometti, *Woman with Head*, 1950



tenth copper cardinal

Copper, 10 parts, each 50 x 50 x 0.5 cm, overall 250 x 100 cm

Berlin, Staatliche Museen zu Berlin - Preußischer Kulturbesitz, Nationalgalerie, Collection Marzona

Andre's initial approach to sculpture was not easily understood when he began to exhibit in the mid-sixties. According to John Weber, the former director of the Dwan Gallery, most visitors to Andre's first one-man exhibition "Eight Cuts" in Los Angeles (1967) did not dare to enter the gallery and left after a short glance at the installation. The entire floor of the gallery was covered with concrete capstones with eight open areas revealing the wood floor beneath. The viewer had no choice but to walk on the stones in order to enter the gallery. In 1967 this was too much to ask for most of the audience.

For the sculpture *Tenth Copper Cardinal* Andre placed ten square copper plates in two rows of five forming a rectangle with one shorter side touching the wall. The plates are machine made and betray no touch of the artist's hand. Installation involves no welding, bolting, carving or drilling, the usual hallmarks of traditional outdoor sculpture. The placement of the plates is the extent of the installation. Andre breaks not only with the handcrafted ethos of traditional American steel sculpture, which is exemplified most prominently in the work of David Smith, but also with the idea that sculpture must transcend its materials and be read by the viewer in purely pictorial and figurative terms.

There is no beginning or end, no preferred direction to the piece, nor is there a pedestal or depth beyond the thickness of the plates themselves. Each plate is of equal importance and as a whole they exist on the floor as a tangible fact like the floor itself, and like a floor can be walked on at any point. The weathering of the copper provides its own natural patina. The artist, by positioning the plates, defines the field of vision. But the viewer brings his own sense of sight, touch and direction.

As his friend and colleague Frank Stella would say, "What you see is what you see." In this case, ten copper plates on the floor or ground. This attitude the two artists share. The specific choice of metal assumes greater importance when other sculptural options and

conventions are removed. The viewer has arrived at a new place. *Copper Cardinal* strives for and achieves a primary, direct experience – an aesthetic wrinkle taken neat.

"my work is atheistic, materialistic and communistic. it is atheistic because it is without transcendent form, without spiritual or intellectual quality. materialistic because it is made out of its own materials without pretension to other materials. And communistic because the form is equally accessible to all men."

Carl Andre



aluminum-zinc dipole E/W



Dico Master - United States 01 1972 73 000



blue box

Fluorescent light, metal, 170 x 60 x 60 cm

Berlin, Staatliche Museen zu Berlin – Preußischer Kulturbesitz, Nationalgalerie, Collection Marzona



b. 1926 in Agios Nikolaos (Greece)

Stephen Antonakos started his artistic career in the late forties as an autodidact while he was working as an illustrator to support himself. In the mid-fifties he began to employ found materials which he combined in three-dimensional assemblages. During this period his work reveals influences of Lucio Fontana (1899–1968), Alberto Burri (1915–1995) and Robert Rauschenberg (b. 1925). At the beginning of the sixties Antonakos discovered fluorescent light, which soon became his primary medium. During the sixties Antonakos' ground-breaking fluorescent-light sculptures were included in many important group exhibitions, and in 1966 he began to exhibit at the Fischbach Gallery New York.

Many works by Antonakos concern themselves with the social relationship of sculpture to architecture in the public space. Since the mid-sixties Antonakos has created sculpture environments using industrial lighting systems, particularly bright white chrome fluorescent tubes. He combines them in numerous glass and metal assemblages wearing the transparent fluorescent tubes through old or modern buildings such as underground train stations, power plants and religious sites.

Blue Box is an early work formed by ten chrome parts, a smooth-finish steel base roughly two-thirds the height of the piece and a cubic frame of blue neon tubes placed on top of the base. In the piece the observer confronts a translucent cube that evokes a archaic presence and the temporality of modern times. The colour of the light is a powder blue and describes the atmosphere of the



© STEPHEN ANTONAKOS



primary light group: red, green, blue

Oil, varnished polyvinyl on canvas, 3 panels, each 153 x 153 cm, overall dimensions variable
Gift, purchased with funds from the Philip Johnson Fund, 1969
© 2006, The Museum of Modern Art, Philip Johnson Fund, 1969



b. 1929 in Seattle (WA)

Like most artists of her generation, Jo Baer had a solid academic background, but unlike most of her fellow-artists she actually worked as a scientist for a considerable period of time. Baer majored in biology in 1949 and then moved to New York where she undertook graduate work in physiological psychology at the New School for Social Research.

Baer's Minimal paintings reveal her substantial knowledge of physiological perception as well as her fascination with the mechanics of optical phenomena. Most of Baer's paintings in the sixties share a recurring theme: a black band delineating the physical perimeter of the canvas along with a thinner interior border of a generally lighter colour, which separates the dark outer frame from the white central core. Different size canvases demand different colours and thickness of Mach bands, the name she gives to the borders. Her works can be considered as retinal abstractions activated by the delicate red, green or blue borders, which act as shutters or apertures. The paintings use light in a non-illusionist manner and retain a Spartan rigour. Baer investigates the physical matter of paint on canvas without emphasis on any one component over another. This is to avoid a pictorial hierarchy and maintain visual flatness. Surface, line, colour, paint have no special preeminence, but share an objective visibility to all.

Primary Light Group: Red, Green, Blue is part of a series of a dozen paintings each composed of primary-coloured canvases of different sizes and formats. They differ by the systematic use of one saturated colour. Each thin border line gives a special hue to the all-white

surface, the colour final wave differentiates the three panels. This also reflects Baer's interest in a non-illusionist sense. The series could be combined none of which could be

Baer's painting in general and abstract painting in particular were the supremacy of one form of art over another. Minimalists like Donald Judd questioned this when set against the new rule of Minimalist sculptors. Baer responded to that are to be understood as retinal facts of visual completion. From her perspective, what was in the mind, not the eye of her viewer.

"some recent wall boxes look hollow ... some recent paintings redefine colour as luminance (reflected light), and use this new colour spectrum so that no illusion of depth is possible at all."

Jo Baer



cube no. 2



► 1938 in Chicago (IL)

... Monna Lisa sculpture. He first showed his cubes at
Maury New York, in 190?

Cube No. 2 consists of an immobile cube in a coated glass frame, transparent to light. The cube is transparent but with a burnt ochre hue, which filters the light to create a dim glow. The surface of the cube is dark but reflective, and as such it is not a solid object but one that can be peered into. Seen from far away, the brilliance of the cube defines a visible volume above an immobile pedestal; but approaching the work one grasps its two-fold quality: the six faces of the cube no longer appear as a solid volume, either they become transparent and gravitate towards the inner core. The edges are made of chrome-plated metal and the thin blades visually separate the six faces of the cube, so that they appear to float independently of one another. The depth created by the darker interior counterbalances the mirroring effect of the glass surface. This effect has been achieved by a process of vacuum-coating that uses metal vapours to apply the colour to the glass. The interior space in dim amber light is a resting place for the eyes and mind of the observer.

the glass surfaces. Employing the cube format, Bell's
invention is a cube-shaped structure which is
approximately 10 feet high and 10 feet wide.
The top surface of the cube is a glass pane
which is approximately 10 feet square. The
bottom surface of the cube is a glass pane
which is approximately 10 feet square. The
left side of the cube is a glass pane which
is approximately 10 feet high and 10 feet wide.
The right side of the cube is a glass pane
which is approximately 10 feet high and 10 feet wide.
The front face of the cube is a glass pane
which is approximately 10 feet high and 10 feet wide.
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The front face of the cube is a glass pane
which is approximately 10 feet high and 10 feet wide.
The back face of the cube is a glass pane
which is approximately 10 feet high and 10 feet wide.

the glass surfaces. Employing the cube format, Bell's work of the sixties combined the visual complexity of Op Art with texture. He first showed his cubes at the 1964 World's Fair in New York. The cubes were transparent but reflect the light to create a dim glow.

"My works are about 'nothing' and illustrate in the most literal sense 'emptiness and lack of content'."

Larry Bell



Three Elements

Painted plywood, aluminium, 3 parts, each 284 x 122 x 53 cm
 Berlin, Staatliche Museen zu Berlin – Preußischer Kulturbesitz, Nationalgalerie, Collection Marzona



b. 1939 in Vancouver (BC),
 d. 1988 in New York (NY)

Primary Structures at the Jewish Museum in New York in 1966.

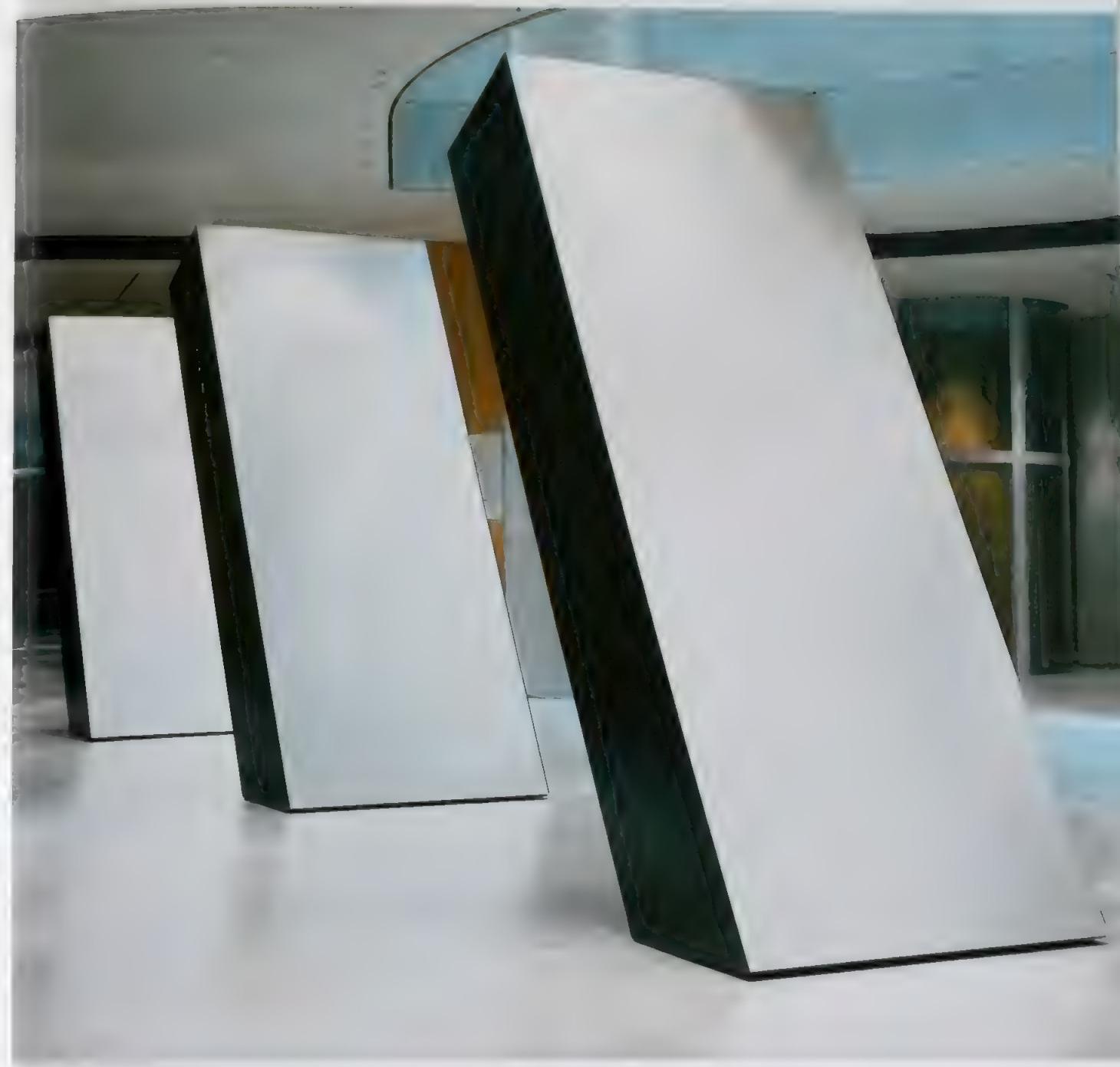
The elements are nearly three metres high, built in plywood and painted with black enamel. One of the oblique wider faces is clad with a smooth aluminium surface that absorbs and softly reflects light. The contrast between the darkness of the black box, its tar-like appearance, and the silky film of aluminium establishes an intriguing relationship between the elements and the space where they are situated. This contrast has a similarity to another of Bladen's sculptures, *Untitled (Curve)*, 1969, where the definition of the inner and the outer part of a curving semi-circular wall in relation to the surrounding space is emphasized by the opposition of the exterior black and the interior white colour. *Three Elements* stand still in sequence, thus creating an activated interior space, a series of angular pockets that lie in the shadows cast by the towering black trapezoids. This aspect relates to Bladen's life-long interest in natural phenomena and the shadows cast by natural forms (he once spoke of the shadow formed upon the water by a wave about to crest).

"My pieces are not at all that large ... I am much more involved in presence than I am in scale."

Ronald Bladen

Bladen, whose parents had immigrated to Vancouver from Britain, had visited Stonehenge in England and one of his disappointment after finally seeing the megalithic stones was his appointment lay in what he felt was a lack of tension between the standing architectural forms. Thus in *Three Elements* the spaces established between the trapezoids are part of the whole; they participate in it while being discreetly removed and detached from it. Walking along the main axis towards one element the viewer approaches the oblique plane of the aluminium surface with the anticipation of any volume behind it; the observer's own shadow appears on the silver plane, lingering on it to give the impression of a solid mirror or rather a colourless metal surface.

The complexity of Bladen's sculpture is evident when it separates from the central axis. At that moment the three volumes begin to acquire physical mass and begin to engage with space in various directions, thus linking the viewer and the sculpture into the same spatial context. Circling the forms, the viewer begins to understand Bladen's expressive work and can ponder the space, balance, verticality and sense of dynamism created by it. The piece is designed and constructed to withstand a wide expanse of space around it. A smaller steel version of *Three Elements* in North Carolina is located in a landscape setting where the trapezoids become territorial markers to see the monoliths from a distance from whichever direction you approach. Once near the sculpture they understand that these forms have a special character and proportion which are monumental as well as human in scale.



untitled (curve)

Painted plywood, 284 x 671 x 457 cm

Berlin, Staatliche Museen zu Berlin – Preußischer Kulturbesitz, Nationalgalerie, Collection Marzona

This sculpture is a good example of Ronald Bladen's interest in defining an extended artificial space where the three-dimensional form of the piece and the observer interact alone between themselves, and between themselves and the environment. *Untitled (Curve)* is a curvilinear structure forming almost half of a circle. The interior side of the curve is a backward-leaning wood surface painted bright white, which causes its materiality to dissolve in an enigmatic floodlit space. This white immaterial zone, partly embracing an observer who is walking close to the slanting surface and partly pulling away from him, prevents any possible peripheral vision and flows in circular motion around the observer, who consequently loses balance and begins to lean towards the wall.

There is a similarity in this eccentric movement with Richard Serra's later sculptures, like *Tilted Arc* (1981), which swirl around the viewer in a rhythmic enclosure. When Bladen was building his monumental wood sculptures in the late sixties and early seventies, Serra

would visit him while he was hard at work. Even before the completion of the structure of his complex pieces before the, when Bladen had them heavily bolted and painted black, Serra would comment on them and ask him why he was covering up all the goodies inside. This illustrates the difference between Bladen and Serra as contemporaries. Bladen's room-sized structures were directly opposed to the Minimalist's strictness and its total rejection of pictorial na-

Untitled (Curve) is a means of defining space that are most of Bladen's work. It is made of heavily bolted wooden beams, then spackled and painted. It is applied to industrial structures. *Untitled (Curve)* is a series of shapes whose seriality creates an inner circle. The work that becomes evident is that it turns round to vertical. Unlike Serra's work, the surface is painted in two sides also at boundaries of the medial area of *Untitled (Curve)*. The viewer walks beginning or a



Richard Serra, Clara-Clara, 1983



The cathedral Evening

Painted plywood, 900 x 720 x 300 cm

Berlin, Staatliche Museen zu Berlin Preußischer Kulturbesitz, Nationalgalerie, Collection Marzona

Because Ronald Bladen was older than most of the sculptors associated with Minimalism and came from a highly educated, cultured background, he became an authority figure to many of them, as well as to the many artists he taught at the Parsons School of Design (where he was a member of the faculty from the mid-seventies until his death in 1988). He gravitated from Vancouver, BC to San Francisco in the fourties and became involved in various anarchistic political and literary movements culminating in the Beat Generation. Bladen could count Henry Miller, Jack Kerouac and Allen Ginsberg among his friends. Bladen's rapport with artists was legendary; after his first summer at the Skowhegan School of Painting and Sculpture in 1981, he was asked to return the very next year because of the effect he had on the students. Since Bladen had spent just over half of his life as an accomplished and exhibited painter, his criticisms of painting were just as valued and respected as his judgements on sculpture. He knew what he was talking about. Bladen's presence as a person was ultimately reflected in his sculptures. They were authoritative in form, dramatic in intent, and conveyed his convictions to the fullest.

The Cathedral Evening is a complex and dramatic structure that Bladen developed with his distinctively unique approach to creation. First he created in his mind a three-dimensional, dynamic visual form (reminding one of the Cubist or Constructivist experiments with space and dynamism) that he then committed to paper. He then challenged the force of gravity and experimented with the many ways each part of the sculpture could influence the others, creating a physical body that is in equilibrium as well as dynamically off balance.

The Cathedral Evening is a symmetrical structure formed by two wedge-like volumes that support two cantilevered arms that come together like a pointed arrow; the sculpture consists of an inner wood frame of bolted two-by-fours paneled with plywood. Typically, Bladen would sketch a general diagram to better size the wood framing elements, then he would begin construction, verifying directly in situ the

overall stresses, adding or subtracting parts from the rather craggy inner framework. Peering inside the volumes of the work one finds with an intricate skeleton of wooden pieces bolted together after a series of additions, and it is difficult to comprehend which are the essential parts holding the entire structure in place. The building has an inner wood frame encased by a volumetric shape that has no geometrical relationship to its core and can grow by additions even if the structural freedom allowed within the balloon-frame building materials typical of North American architecture.

The Cathedral Evening has a stark appearance, but approaching it one perceives its handcrafted nature still visible in the plywood seams that lie beneath its coat of black enamel paint. Bladen would remind the viewer infatuated with the industrial edge of a Donald Judd or Larry Bell that he was making sculpture, not furniture. The cantilevered arrow-like shape establishes a triangular spatial tension between the two base modules, which ironically seem to float above the floor, creating a void between them and the surrounding architectural space. *The Cathedral Evening* by its very name invokes the ecclesiastic associations that differentiate it from most Minimalist art.

"I am more interested in the totality of the form of a sculpture than in the peripheral phenomenon of its details or in what can be written, thought or imagined about it. For me, the sculpture should be a natural phenomenon, which I can approach in order to feel, in order to be moved, inspired. And which contains a visible dignity and impressiveness, as a result of which it can never be anything else."

Ronald Bladen



Gothic shaped drawing

Foto: Stephan Küppers
Museen zu Berlin - Preußischer Kulturbesitz, Nationalgalerie, Collection Maria



b. 1935 in Albany (NY)

following instruction to the viewer: "Transfer things from one box to the next box back and forth, etc. Be aware that what you are doing is meaningless."

De Maria's later works often present a premonition of dramatic events in nature that cannot be explained by reason, but still can be experienced by the observer. He can achieve this both in the open air and indoors in controlled installations. Think of his *Lightning Field* (1971–1977) in New Mexico, or the New York *Earth Room* (1977), for example. Focusing on the transition from concept to experience, De Maria aims to visualize the idea either in a subdued or extreme form, allowing the observer to fully experience it. *Gothic Shaped Drawing* is a visually silent work communicating an idea by its simple physical being. The formal configuration is that of a rectangular white sheet of paper with two corners removed at the top to form an arch. The resulting shape forms an abstraction resembling an ogive, a pointed arch form which was one of the recurring geometrical elements in Gothic architecture and painting: it was either a single entity or part of a series; pointing upwards, it was a reflection of man's yearn-

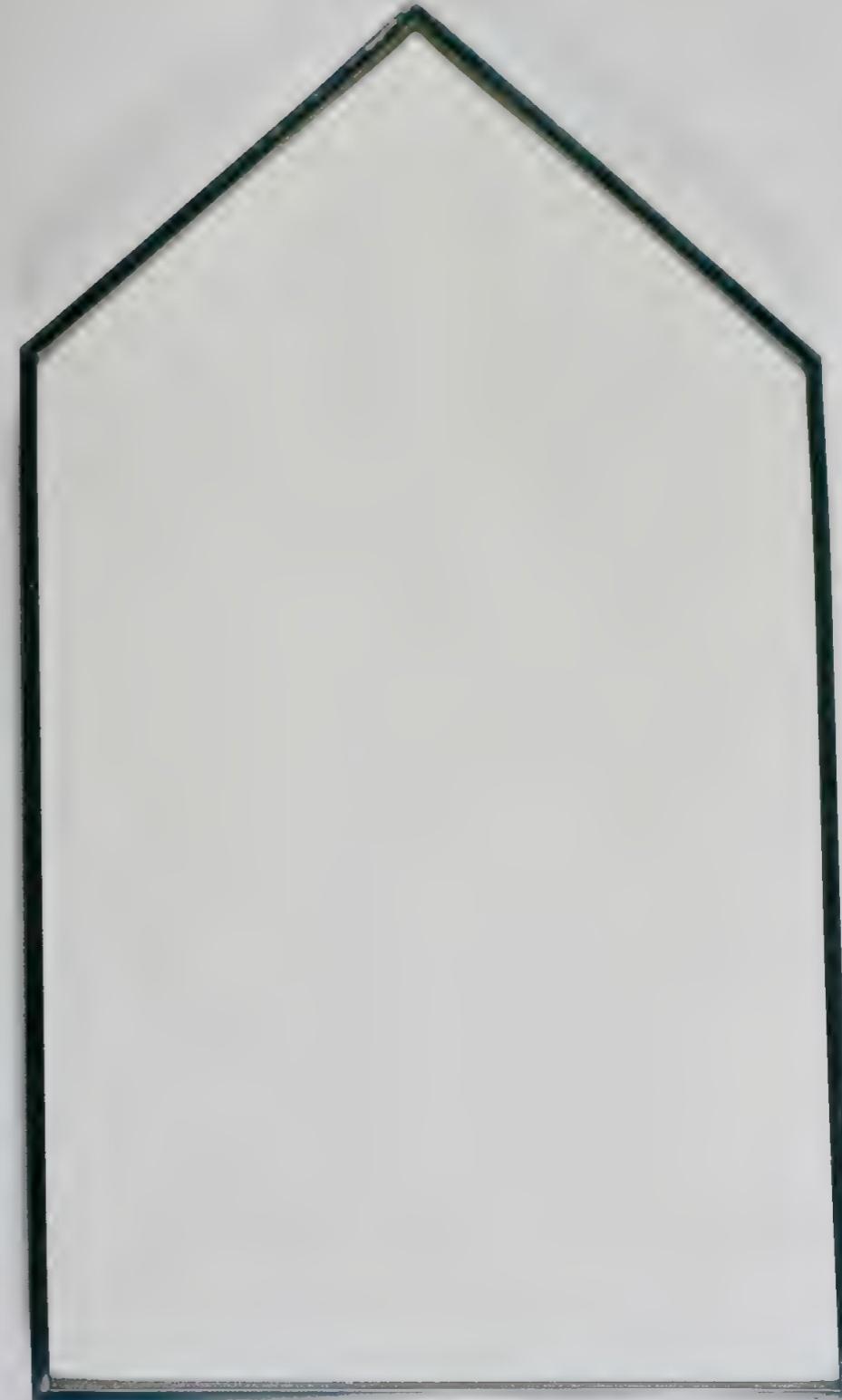
ing to be closer to the divinity and the divine.

Gothic painters used the ogive shape to great effect. Their paintings were then displayed in shallower boxes, in the niches of the saints and other architectural features of the church. Gothic art had a strong religious as well as a spiritual dimension.

De Maria's *Gothic Shaped Drawing* is an artwork that makes one wonder if anything might ever be communicated. Apart from its shape, any iconic reference is absent. The drawing can be seen as an investigation into the search for the sublime and to that end, has an *ordinary truth*, that is, something lacking direct visual or linguistic signs. A title and a precise title are the means De Maria employs to penetrate the usual and rather mysterious terrain the viewer is invited to explore. A religious symbol or a philosophical question, the piece challenges the observer, who is compelled to investigate its meaning and its own existence in the phenomenological reality, the here and now.

"Eye + Mind ÷ Mind – Eye"

Walter De Maria



The Nominal Three (to William of Ockham)

Fluorescent light fixtures with daylight lamps, each 244 cm, overall dimensions variable, edition 2/3

New York, Solomon R. Guggenheim Museum, Panza Collection, 91.3698



b. 1933 in Jamaica (NY),
d. 1996 in Riverhead (NY)

When it first appeared in New York galleries, Dan Flavin's work was somewhat ill received even by the most progressive critics of the time. Lucy Lippard found Flavin's use of coloured light "too beautiful" and declared that his works were crossing the border into decoration.

David Bourdon compared Flavin's first exhibition at the Green Gallery in New York to the shop window of a lighting company. Like the work and materials of other Minimalists,

Flavin's tubes did not seem to be noble enough at the beginning of the sixties. *The Nominal Three*, first installed at the Green Gallery in 1964, is perhaps the most paradigmatic among Flavin's works, marking the transition from a more pictorial use of light to one that relates to and alters the space it inhabits.

The Nominal Three is an arrangement of fluorescent tubes in a series of white units that follow the algebraic progression of $1 + (1+1) + (1+1+1)$, a simple formula of infinite counting arbitrarily stopped at the number three, the least number of elements needed to define a series. What is important about the formula is not its mathematical structure, but rather its serial existence as adjacent units. *The Nominal Three* is important for its progressive, serial procedure, which is a characteristic shared with other Minimal artists such as Donald Judd and Sol LeWitt, who also apply a methodically selected system to their work. The white units bring measure, order and unity to their space, while at the same time dematerializing its actual physicality.

There is an allusion in Flavin and other Minimalist artists' works to the paintings of Barnett Newman (1905–1970), particularly *The*

Stations of the Cross (1958–1966), which uses serial, additive serial part of its ultimate conception. *The Stations* consists of 14 individual works painted over eight years that together form the whole. The simplicity and wholeness of Newman's approach to painting may echo in the work of Flavin. Newman's "zips" may be analogous to Flavin's luminous zips of light. Both artists attempt to reduce their work to its essentials.

The Nominal Three can be exhibited in different ways, according to the artist's wishes. The arrangement can be altered by adding or subtracting units, changing the lengths of the tubes, or multiplying the number of units totaling three, evenly spaced in the wall. The artist has dedicated *The Nominal Three* to the 14th century English philosopher William of Ockham (or Occam), who formulated the "Occam's Razor" name, the statement that "entities must not be multiplied unnecessarily" which reflected a general principle of sophical thought. Flavin attempts to follow this principle in his choice for his art.

"Individual parts of a system are not in themselves important but are relevant only in the way they are used in the enclosed logic of the whole."

Dan Flavin



The diagonal of May 25 (to constantin brancusi)

Cool white fluorescent light, 244 cm

Private collection

Dan Flavin began his career as an artist in the late fifties with abstract paintings that revealed the clear influence of the gestural abstraction of Robert Motherwell (1915–1991) and Franz Kline (1910–1962). In 1961 the artist started to explore new territory, experimenting with electric lights. He began to attach light bulbs and tubes to boxes hung on the wall. He called these rather obscure works icons.

On May 25, 1963 he had his artistic breakthrough when he attached a single fluorescent tube diagonally to his studio wall: *The Diagonal of May 25 (to Robert Rosenblum)*. From that moment on, Flavin began to use everyday light fixtures as his only material and medium. They are given objects, industrial ready-mades that he does not alter structurally or functionally. Instead, he uses the limitations of the medium to extend the concept of light, how it functions, and how we perceive it. Within this simple concept, he challenges the configuration of the space the work is going to occupy in a highly complex way.

When delineating a "proposal" for a specific place, Flavin often uses combinations of tubes arranged in simple series that expand into the exhibition space. Corners lose their function as in *Pink Out of a Corner (to Jasper Johns)*, 1963, for example. In his early works with fluorescent light, Flavin reveals a puritan simplici-



Untitled (to Dorothee and Roy Lichtenstein Not Seeing Anyone in the Room), view of installation, Dwan Gallery, New York 1968

ty, using few elements and placing them in unanticipated locations of walls. *Untitled* (1964/1974) is composed of a thin blue tube and a thicker, shorter red one centred directly below it, both horizontally on the wall. It has a pale fuchsia colour due to the presence of the white and red lights. The pink glow alters the perception of the room's space and the almost visible vibration of light from the fluorescent tube extend to the surrounding architectural space with a layer of pulsating light. People within the space experience a metamorphosis of skin shade as well as a stillness and silence. Sound becomes dulled until the only noise heard is the hum of the gas in the electrified tubes. The horizontal position of the tubes gives the object the status of reference point within the architectural atmosphere of the room. The fluorescent tube and its light have become a single new entity. There is a sense that one cannot fully experience of Flavin's work and, at times, a feeling of being lost in a dislocated space.

In fact, Flavin diffuses light in forms that are not immediately optically and sensorily depriving for the viewer. In another installation *Greens Crossing Greens (to Piet Mondrian)* (1964–1966), a linear fluorescent tube that is bent in a corner acts as a barrier impeding physical movement through space. It acts in full accordance with Flavin's concept of light defining the space of the room.



untitled

Wood, steel, 121 x 274 x 274 cm
Private collection, Italy



b. 1937 in New York (NY)

Grosvenor's early works of the sixties were big plywood volumes cantilevered dramatically across the exhibition space, typically hanging from the ceiling, bending on the floor, or extending from the wall at waist level. They had many similarities with Ronald Bladen's works in that both artists were interested in gravity, dynamism and the environmental dialogue between sculpture and architecture. Both artists exhibited at the Park Place Gallery, and the Green Gallery in the early sixties, and they were lifelong friends. Grosvenor's work became well known to a wider audience after his participation in the groundbreaking "Primary Structures" exhibition in 1966. Many critics of the show preferred Grosvenor's dramatic and monumental approach to sculpture to the more austere objects of Donald Judd, for example. Bladen's *Three Elements* and Grosvenor's *Transoxiana* (both 1965) were among the most celebrated works on display.

Grosvenor later created monumental works of art which the public could walk around and under, but his stated purpose was not to overwhelm the viewers, but to make them aware of the suspended dynamism present in the room or space. In the early nineties Grosvenor investigated timber in his sculptures, challenging the material's essential qualities independent of any utilitarian function. He used long beams, but also wood telephone poles stretched and breaking their fibres to challenge their physical nature. This investigation into the notion of transformation and the potential power of liberated energy. There is loss of energy in the

1978/79



"My works are ideas which operate between floor and ceiling."

Robert Grosvenor

Accession III

Fibreglass and plastic tubing, 80 x 80 x 80 cm
Cologne, Museum Ludwig

"Life doesn't last; art doesn't last.
it doesn't matter ... i think it is both
an artistic and life conflict."

Eva Hesse



b. 1936 in Hamburg (Germany)
d. 1970 in New York (NY)

Born Eva Hesse in Hamburg, Germany, in 1936, she moved to New York City in 1957. She died in New York in 1970 at the age of 34. Her work, which often involved repetitive, rhythmic patterns, paralleled the rhythmic, repetitive nature of her life.

Accession III, 1967-68, was made of the materials available between 1964 and her death. It consists of a rectangular frame of plastic tubing, with a translucent fibreglass cube resting on top. The cube's surface is covered in a dense grid of small, raised dots, creating a textured, almost organic appearance. The overall effect is one of a delicate, fragile object.

Accession III is a significant work in Hesse's oeuvre, reflecting her interest in the relationship between art and life. The title "Accession" suggests a sense of entry or incorporation, while the "III" indicates a progression or continuation of her work. The use of fibreglass and plastic tubing reflects the materials available to her during this period of her life.



Eva Hesse, Accession III



untitled

Copper, 10 units, each 23 x 101.6 x 78.7 cm

New York, Solomon R. Guggenheim Museum, Panza Collection, 91.3713.a-j.



b. 1928 in Excelsior Springs (MO),
d. 1994 in New York (NY)

The almost square, highly polished piece of stainless steel and Plexiglas, *Untitled* (1968), is installed at just above eye level on the wall. This establishes a relationship to the viewer. Its mirror-like surface reflects the space it is in, while the orange Plexiglas top and bottom add an element of warmth to the cool steel exterior. *Untitled* is one independent unit and stands alone, but the form could have been singled out from among other pieces by Donald Judd, for

example his *Untitled* from 1969, ten copper units. This reflects an important aspect of Minimal art, the relative independence of its forms from the tyranny of dependent, fixed relationships. Sculptures could be arranged serially or not, depending on the wishes of the artist. In Judd's case, some of his pieces have been shown with a different number of elements in keeping with the restrictions of the given space. Seemingly autonomous, his works cannot be perceived without considering their relationship to the space they occupy and influence

The meticulous installation of his works was always of great importance to Judd, who often complained about the temporary and improvised nature of gallery shows. In 1971 he discovered the small town of Marfa in Presidio County, Texas. From 1973 to 1984 he realized, with the help of the Dia Art Foundation, one of the largest art projects ever undertaken by a single artist. By the late seventies Judd had also begun to centre his private life on Marfa, and started to live there with his two children.

Following disagreements with the Dia Art Foundation, the place was transformed into The Chinati Foundation in 1986. In vast indoor

1969



1969



untitled

Aluminium, blue Plexiglas, 100 x 50 x 50 cm

Berlin, Staatliche Museen zu Berlin - Preußischer Kulturbesitz, Nationalgalerie, Collection Marzona

Donald Judd had received a remarkable academic education during the fifties and sixties. He spent 15 years at several universities, not only studying art, but also acquiring degrees in art history and philosophy. Together with Robert Morris, Judd soon became the leading theoretician of the new work in three dimensions. His essay "Specific Objects", which was first published in 1965, has been considered by many art historians as the first manifesto of Minimal art. The opening line, "Half or more of the best new work in the last few years has been neither painting nor sculpture", is one of the most quoted artist statements in recent art history.

Different from many other Minimalists, Judd never abandoned the relief format, and many of his works retained a clear relationship to the wall. *Untitled* is mounted on the wall at eye level, and the divided front surface of the steel and Plexiglas rectangle gives it a dual visual presence. Depending on the intensity of the light, the blue side can appear denser and more reflective as a frontal surface, or else more transparent and vulnerable.

In spite of its rather complex visual demands, someone could look at this piece, and without touching it, determine the exact dimensions, materials needed and approximate weight of the sculpture in order to effectively reproduce it. This is in keeping with Judd's stated desire to not hide the process or materials of his objects. The notion of wholeness, which was very important to Judd, was in his mind independently of the fact that a work consisted only of one or more elements. Since there are no hierarchical relationships between their parts, Judd considered not only works like *Untitled* but also his *Stacks* as aesthetically whole.

The blue Plexiglas left-hand side, when seen next to the steel right-hand one with only the joined edges exposed, recalls the compositional structure of certain Minimalist paintings by Robert Mangold and Paul Mogensen (b. 1941). The cut-out replacement of steel on the left side and its replacement by Plexiglas represent another aspect of the modular, serial procedure of most Minimal art. Its forms

can be self-generating like an organism reproducing itself. The confrontational look of *Untitled* is inherited, but I've come across it from sculptors like Tony Smith, who began to produce abstract, large, and sometimes mysterious works in the early 1960s, and exhibited them in New York until 1966. Smith's pieces, which were polyhedra hovering on the ground, while Judd's *Untitled* is a face-to-face literally in your face.



**"The first fight
almost every artist
has is to get clear
of old European art."**

Donald Judd

untitled

Steel, 6 units, overall 300 x 50 x 25 cm

Berlin, Staatliche Museen zu Berlin - Preußischer Kulturbesitz, Nationalgalerie, Collection Marzona

Donald Judd has often been considered as the Minimal artist par excellence. He started his artistic career in the late forties as a traditional painter and developed his mature work at the beginning of the sixties out of his experiments with painting. In 1961 and 1962 Judd executed several reliefs which combined elements of painting and sculpture. In 1963 he gave up painting altogether and focused his attention on work in and with real space. Curiously, Judd had worked out the concept of his "specific objects" more or less unnoticed by the public. In spite of several invitations Judd refused to show his work publicly from 1958 to 1962. During this period he was much better known as an art critic than as an artist. Judd wrote articles and reviews on a regular basis for "Art News", "Arts Magazine" and "Art International" and these reviews soon became famous for their abrasive style and rough, uncompromising criticism. When Judd first exhibited his three-dimensional work at the Green Gallery in 1963, even the insiders of the New York art world were surprised by the austerity and vaunted simplicity of his objects.

Untitled is a vertical wall progression of six rectangular steel boxes with equal spacing between each box, a structural form first used by Judd in 1965. The so-called *Stacks* soon became a signature style of Judd's work. The boxes are identical within the limits of welded fabrication. In fact, beginning in 1964, Judd employed the industrial manufacturers Bernstein Brothers to make his works for him, and in one fell swoop discarded artistic sentimentality and all traces of the artist's hand. In *Untitled* the rectangles are open at the front and reveal their interior to the viewer. This creates an aesthetic honesty that Judd desired and used in order to eliminate the element of illusionism so abhorrent to him in his work and convictions. He believed the observer should be able to see how the piece was made and immediately understand its structure.

From the mid-sixties on, Judd used his *Stacks* and progressions in either a horizontal or vertical direction, varying the number of forms anywhere from one to ten. The ochre surface of this piece

reflects Judd's attention to unified colour. A little later, he had very distinct ideas about how to use colour. In *Untitled* (1967) and metal pieces he used colour in both matt and shiny ways. In *Untitled* (1987) he used galvanized iron and turquoise enamel in units at 15.24 cm intervals. Other works employ wood, Douglas fir and plastic. Using newly invented and experimental techniques of colouring metal, like anodizing and electroplating, he was able to meld the colours with the surfaces so they presented to each other.

Untitled rises majestically up the wall. The effortlessness of the piece in pieces like this defines the public idea of Minimalism to a large extent. Clean, efficient lines, the use of modern materials, the lack of sign of the artist's hand and a sense of wholeness are the basic principles of Judd's "specific objects".

**"A shape, a volume,
a colour, a surface
is something itself,
it shouldn't be concealed
as part of a fairly
different whole."**

Donald Judd



untitled

Fibreglass and wire, 22 x 80 x 10 cm

© Gary Kuehn, 1969. Berlin, Museum für Kulturkunst, Nationalgalerie, Collection Marzona.



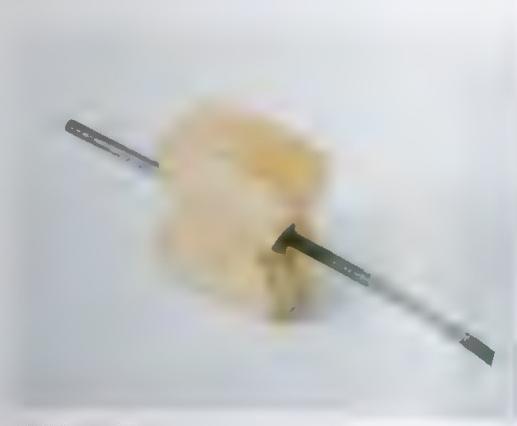
b. 1939 in Plainfield (NJ)

engineering disasters that influenced some of his early works. Many of his foam pieces of the late sixties allude to these disfiguring accidents in a surreal manner. Kuehn's fibreglass works have been included in many important group exhibitions, such as "Eccentric Abstraction" (New York, 1966) or "Live in Your Head: When Attitudes Become Form" (Bern, 1969).

Untitled appears as a rectangular, malleable, rubber-like form lying on its side and tied tightly about its abstract "neck" by steel wire. The wrinkled and bumpy surface seems to push outward from underneath the wire-like skin. There is, in spite of this, a humorous aspect to the piece. It looks like a block of American cheese wrapped in Kraft paper being punished, or about to be kidnapped: another small engineering disaster in the making. The anthropomorphic quality is emphasized by the fact that the steel is tied at what could be considered the neck of the piece. The evident contrast between its vaguely organic sensuous shape and the cold, impersonal steel wire is even more deceptive when it is noted that the soft-looking surface of the sculpture is an illusion.

Gary Kuehn studied with Roy Lichtenstein (1923–1997) and George Segal (1924–2000) in the early sixties. He received his MFA from Rutgers University, New Jersey, in 1964. Much of Kuehn's work stems from his private psychological needs and experiences. During the sixties Kuehn worked on huge construction sites where he took on the most dangerous jobs either as a structural steel worker or as a roofer. Here he witnessed small

Untitled is made of rigid synthetic fibreglass to resemble a pliable surface. Thus the physical nail in contrast with its visual appearance; the real bondaged act of release create an ambivalent struggle between form and imagination. Many of Kuehn's works subvert the form to assume a new kind of surrealist and expressive art can be grouped together with the post-Minimalists Eva Hesse, Keith Sonnier (b. 1941) and late Robert Morris constructs geometrically simple and benign form and then open, exposing a physical disruption of the nature of the piece. He investigates the vulnerability of their resultant changeable condition by variously stretching and expanding the materials to permanently alter their status. All this is usually done on an intimate scale till surreal aspect.



Untitled, 1969



wall structure – five models with one cube

Lacquered steel, 341 x 73 x 30 cm
 Berlin, Staatliche Museen zu Berlin – Preußischer Kulturbesitz, Nationalgalerie, Collection Marzona



b. 1928 in Hartford (CT)

A ladder-like object created with a linear sequence of five squares with a three-dimensional cube projecting outward one interval below the top of the line: *Wall Structure – Five Models with One Cube* marks a transition from individual, hand-made works to the serial pieces from 1966/67 that soon led to a radically conceptualized and methodical approach to art and the making of objects.

Sol LeWitt has determined beforehand the overall

measurements as well as the ratio between the visible cubic space and the square models. The work is considered a wall piece, but its horizontal or vertical placement on the wall surface is not defined. It is the installer's decision and responsibility to choose the hanging direction; thus LeWitt refrains from imposing a system on his system. *Wall Structure* is one of many possible configurations in a broader sequence LeWitt could have realized; the cubic extruded frame, located in a different position within the square series, would redefine the configuration of the structure without changing its overall dimensions. LeWitt's modular work could be related to Carl Andre's *Cuts*, 1967, where three-dimensional voids with diverse shapes but identical volumes are subtracted from the compact mass covering the entire floor of the Dwan Gallery.

The multiple permutations LeWitt develops in his pieces are manifestations of a geometrical and mathematical system based on predetermined parameters, as well as derived from common industrial materials like aluminium, steel sections or concrete blocks. LeWitt considers the planning and generation of the sequential scheme the

work itself, thus its material execution is not a necessity. It could be realized by anyone according to the artist's concept. The physical object is secondary to its generative principle.

This principle is best exemplified in LeWitt's "wall drawings" begun in 1968. The first "wall drawing" was presented by LeWitt himself at the Paula Cooper Gallery, but soon a student and his friends were enlisted to draw them directly on the walls of various walls all over the world, following the artist's specific drawing. The same work could therefore be realized in different locations and could look different depending on the nature of the actual wall.

Although the works of LeWitt are often described as minimalist, his premises and concepts are completely opposite. According to the artist there is no contradiction between the two. His drawings must be followed absolutely and logically, as they are based on a geometric system of coordinates that define the visible cubic space, thus representing a relationship to the public realm. The artist is his own self during the act of drawing, but this is only a component of the work itself.

"The form itself is of very limited significance; it becomes the grammar of the whole work."

Sol LeWitt



open cube

Lacquered aluminium, 105 x 105 x 105 cm
Berlin, Staatliche Museen zu Berlin – Preußischer Kulturbesitz, Nationalgalerie, Collection Marzona

The work of Sol LeWitt in the sixties must be regarded as exceptional since it bridged the gap between formal abstraction and Conceptualism. Within a few years between 1964 and 1967, the work of LeWitt underwent dramatic changes. After he had given up painting a year earlier in 1963, LeWitt worked on single objects mostly built out of plywood. These reduced structures were either hung on the wall or placed directly on the floor. In 1965 LeWitt developed his first modular structures based on the cube format. From then on his works were all coloured white and mostly built by factories in steel or aluminium. One year later LeWitt began his first serial projects and abandoned the Minimalist, object-based discourse. He became one of the first conceptual artists working in New York. In 1967 LeWitt wrote and published his "Paragraphs on Conceptual Art", a short text in which he clarified the theoretical guidelines of his artistic approach.

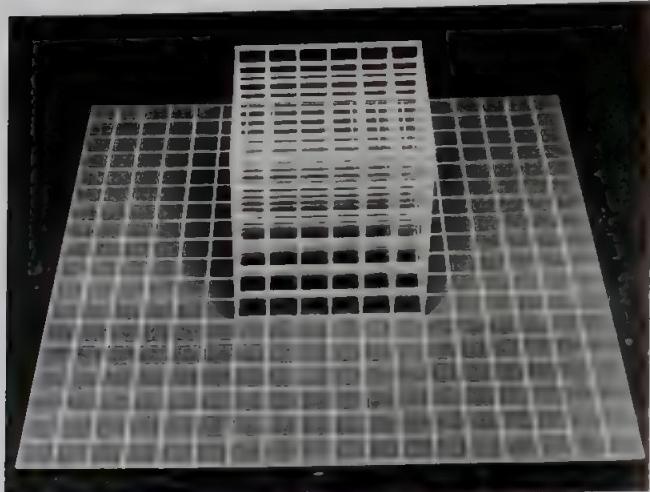
Open Cube belongs to LeWitt's early investigations into the infinite possibilities of defining a cubic space from a freestanding

three-dimensional frame, and is one of his early modular works. This work is the skeleton of an open cube lacquered in pale yellow, giving it an air of immateriality. It defines a portion of space without enclosing it around itself; its dimensions and shape have specific properties. LeWitt within a set of personally determined parameters. The configuration is a physical field and an abstract form of representation. The cube (1 x 1 x 1) thus mathematically defines the physical space of one metre, but alone could not indicate all the possibilities of the various configurations of the cube's surface. By removing parts of the cube, LeWitt had to find a system to record his work. In 1965 LeWitt began to use a name-part grid system for his first modular project, his first serial project *ABCD* (1965). LeWitt's modular compositions can be repeated to effect a specific effect within the whole, but their individual parts remain independent of the subject matter.

His attempt to endear himself to the public was to give a cipher of the modular cube frame and its variations. The name-part grid system is a way of defining the variations of the three-dimensional cube. The name part grid system is a way of defining the variations of the three-dimensional cube.

Important Project: Open Cube

LeWitt's first modular project, *Open Cube*, established the basic principles of his later work. The work consists of a base and a top frame.



Modular Cube/Base, 1968



HRZL 1

Concrete blocks, 160 x 160 x 720 cm

Private collection, Italy

In the mid-eighties Sol LeWitt began a new series of works using concrete blocks. The artist was interested in the "non art" quality of the material, and also welcomed its practical advantages, since "concrete blocks are basically the same all over the world". Indeed one can find LeWitt's concrete cubes, towers, pyramids and geometrical progressions almost anywhere in the world where concrete blocks are used. In stark contrast to his open cubes and modular structures, these works are built of layers of massive volumes, but appear no less architectural than his earlier structures. Some of LeWitt's concrete works, like his *Eight Columns in a Row* (1995) at Schiphol Airport, Amsterdam, have reached quite gigantic dimensions, while most remain within the usual scale of outdoor sculpture.

HRZL 1 is composed of concrete blocks and follows a geometric progression beginning with one cubic block of 20 x 20 x 20 centimetres and terminating with a cube of 160 x 160 x 160 centimetres,

with each unit of the stair-like configuration defining a vertical axis. The smallest unit determines the ultimate height of the progressions. The work is the realization of a numerical sequence of incremental units with the smallest unit being the beginning of a sculptural entity defined within a purifier, part raised plateau, HRZL 1 is the beginning of a series still in accordance with his statement from 1967: "When using a multiple modular method, he usually chooses a form which is readily available form. The form itself becomes the grammar for the total work."

HRZL 1 when seen outdoors is an entity removed from nature. Inside it would have a different appearance. The works of Carl Andre made of sand-lime blocks which would become a kind of architecture without function. Like Andre's works, LeWitt's concrete structures are formed of smaller units placed together to make the larger whole, yet unlike Andre's works, HRZL 1 cannot be destroyed. Like the *Endless Column* by the Romanian sculptor Constantin Brancusi (1876-1957) placed in Paris, the structure could extend out indefinitely. It functions as a catalog about variations available within an original premise, endless variations possible within the basic premise.

**"the aim of the artist would not be to instruct the viewer but to give him information. ...
The serial artist does not attempt to produce a beautiful or mysterious object but functions merely as a clerk cataloging the results of his premise."**

Sol LeWitt



HRZL 1, 1990



Three squares within a triangle

Acrylic and pencil on canvas, 145 x 183 cm

Private collection

Some of Robert Mangold's later paintings and drawings, in particular the semicircular ones, are vaguely reminiscent of Frank Stella's (b. 1936) abstract pictures from the 1960s with their excised "punched out" middle pieces. Mangold's series with their individual circular forms on square canvases can also be compared with Sol LeWitt's "wall drawings" and Mel Bochner's (b. 1940) diagrams, or with abstract-geometric representations. Yet whereas LeWitt and Bochner's works rely on systematic schemata and are carried out on the basis of previously defined concepts, Mangold's paintings seem intuitive, like the findings of an individual investigation.

Mangold's use of shaped canvases, whose geometric forms are often imperfect, can be regarded as a constant feature of his painting. Sometimes rectangle, square and circle are scarcely distorted or cropped. They give expression to a fragmentation of the gaze, the source of which is Mangold's experience with the chasms between New York skyscrapers. By contrast, the artist associates curved outlines with the experience of nature.

Three Squares within a Triangle is a work from a series Mangold produced in the mid-seventies. Formally, these paintings are restricted to geometric shapes in different configurations mainly on monochrome canvases or masonite boards. The paintings are relatively moderate in size – the largest in the series measures 145 x 183 cm – and done using acrylic and pencil. This work is in the primary colour red, while in others he uses mainly subdued, light-absorbing colours like salmon pink, blue, green and dark grey. Three different size squares are engraved, as it were, into the geometric triangular form of the canvas in pencil, with the largest square standing on one of its corners so that it seems to disrupt the symmetry of the triangle. The question this raises is that of the beholder's gaze: where is the eye drawn to most, the figures on the canvas or the form of the canvas itself? Asked about the object-nature of his works, Mangold once said: "I've been more inclined to think about painting as a combination surface-shape rather than as an object".

Mangold bundles all the painting's elements on an apparently flat plane, yet still achieves an impression of depth. It would be remiss to claim that remnants of illusionism simply cannot be avoided in painting when all the compositional elements are clearly and dispassionately arranged. Unlike Donald Judd, Mangold sees no problem in this. He has deliberately included a remnant of illusionist spatiality – not least to intensify the complexity involved in perceiving his paintings. Mangold thus plays with the elements of shape, space and surface which are constantly changing in the eye of the beholder. Seemingly schematic-geometric forms unite in Mangold's paintings to create fluid, constantly changing fields of vision.

"in the process of changing form-definitions, the visible loses its reliability. viewing is constantly thwarted, which results in a recognition of the unity of the work in its transcendence of the visible: in the tension of personal effort and processes of perception."

Robert Mangold



right down

1966. Fibreglass and polyester resin on wood, 214 x 117.48 x 6.99 cm
San Francisco, San Francisco Museum of Modern Art, anonymous gift



b. 1934 in Berkeley (CA)

The native Californian John McCracken is usually identified with the "kustom kar" culture of Southern California because of the glossy, hard-body surfaces of his early work. *Right Down* stylistically follows the earlier pieces like *Blue Post* and *Lintel*, which are architectonic in character and painted a smooth, hard, cerulean blue, and block and slab pieces like *Black Black*. *Black Black* is more intimate in scale and painted a mirror-like black that

gives it an iconic quality reminiscent of the Kaaba, the sacred stone of Islam. Its frontal, squat nature calls to mind Tony Smith's *Die* (1962/1968), but only if the latter had been taken to California and dumped in a body shop for some major re-finishing. Its flawless, smooth surface is the complete opposite of Smith's piece and its size is much smaller. But like Smith's piece it is on a human scale and deals with an iconic space that relates not only to painting and sculpture, but also to other things beyond.

The effect of living on opposite coasts of the United States is noticeable here; though McCracken's piece is black, it is not necessarily a "downer". Its perfectly executed forms and smooth exterior express perhaps introspection, but not despair. Its perfect craftsmanship and concern with structural reduction to essential form tie it to both the Minimalist school in New York and the new materials ethic of the California school of McCracken and his contemporary Craig Kauffman (b. 1932), for example. Both artists used fibreglass and polyester resin in shiny colours, unlike the reductive, simple and heavy materials such as steel or iron.

The "planks" sculptures such as *Right Down* 1966 as sheets of plywood leaning against the wall in studio. (Robert Motherwell's *Open Series* of 1961 is similar fashion; even the powder blue of *Right Down* Motherwell's work and shows how related top plank art aesthetic is.) The earliest plank piece was 14 x 1.254 cm, the 2.54 cm width an attempt, it seems, to reduce wood itself from the standard size of 121.9 x 2.54 cm. plywood is commercially fabricated and available. *Right Down* pared right down to its aesthetic essentials, colour, form, word so important at that time and spoken often by the artists as inherent in the value of what they were doing.

For these pieces, McCracken covered the planks with fibreglass and brightly coloured polyester resin, without the overall structural quality of the work. It functions primarily as a space of colour and light, but still preserves an object, the planks can de-materialize when placed in environment. Placed on the floor, they relate directly at human height and in our literal viewing and walking.

flatness also takes on painting's usual domain of illusionary colour and visual perception. In one sense it can be asked if this is a painting laid onto the floor? Such questions are appropriate to ask in the open realms of perception McCracken has created.



Tony Smith, *Die*, 1962/1968

untitled

Lead relief, 55 x 60 cm

Berlin, Staatliche Museen zu Berlin – Preußischer Kulturbesitz, Nationalgalerie, Collection Marzona



b. 1931 in Kansas City (MO)

Master's degree with a thesis on Constantin Brancusi in 1966. Later the same year Morris published his "Notes on Sculpture" in "Artforum" which put him on the map as a major theoretician of Minimal art. Influenced by the French philosopher Maurice Merleau-Ponty (1908–1961), he became the first Minimal artist to develop a concise theory of the reception of his work. Unlike most of the Minimal artists, Morris did not limit his work to one direction only, but explored different issues and worked in different media concurrently throughout the sixties. Coming as he does from a background of performance and dance, most of his works are concerned in one way or another with the process of making and/or perceiving.

Untitled is a wall relief reflecting Morris' early interest in the Dada and Fluxus tendencies that influenced his work of the early sixties. It also reveals his knowledge of Jasper Johns (b. 1930), who had made sculptures of flashlights and light bulbs in 1958, which, presented in an ironic, deadpan manner, influenced the development of Pop Art. The sculpt-metal Johns employed in making his objects is recalled in the colour of Morris' lead relief, and Johns' paintings/

In 1960 Robert Morris moved together with the choreographers Yvonne Rainer, Simone Forti and Trisha Brown from San Francisco to New York, where they soon became central figures of the experimental Judson Dance Theater. Still within the context of the Fluxus movement, Morris started to build his first reduced sculptures in 1961. At the same time he also enrolled for the art history program at Hunter College, where he completed a

objects, like *No* (1961), are definitely comparable. Having hit the wall of lead, the sound of the can suspended on the wall is heard, but its effect is seen. In *Untitled*, a drawing from 1963 Morris uses what looks like an electrocardiogram to create simple zigzag lines in a very Minimalist composition. The zigzag line implies the movement of a heartbeat, and like the lead relief, implying though physically absent from the work, is a part of it.

The concentric circles imply movement, time having passed. The process is implied. Though lead is not a very hard surface, easily dented, a ringing noise is brought visually to mind. *Untitled* has a surface beyond the circles is soft, suggestive of skin, and has pictorial beauty. Here in the choice of materials Morris follows Richard Serra's later involvement with lead, while Morris worked with plywood, which became his primary medium in the sixties.

"it is characteristic of a 'shape' that any information about it as a shape is exhausted once it is actually standing there."

Robert Morris



hanging slab (cloud)

Painted plywood
View of installation at the exhibition "Plywood"

**"simplicity of form
is not necessarily simplicity
of experience."**

Robert Morris

Hanging Slab (Cloud) is one of a group of seven plywood sculptures first shown in a very important solo exhibition of Robert Morris' work held at Richard Bellamy's Green Gallery in late 1964/early 1965. The installation became a defining moment in the history of Minimal art. The seven sculptures were arranged throughout the gallery, making full use of the exhibition space. *Boiler*, *Cloud*, *Corner Beam*, *Floor Beam*, *Table* and *Wall Slab* were placed in locations so as to fully engage the total space of the room and affect the viewer's perspective and movement. *Cloud* was seen in this exhibition suspended from the ceiling, thereby bringing the ceiling of the space into the Gestalt of the exhibition. The previous year, in a group show at the same gallery, a work very similar to *Cloud* was shown suspended five centimetres above the floor, where it was of course viewed from above. The grey, painted plywood square changed location the next year to deal more fully with the particular space of the Green Gallery.

Morris decided that *Cloud* would best hang from the ceiling parallel to the portion of the gallery space

The title *Cloud* is a metaphor for its position in the upper space of tionally descriptive titles of other which spanned two corners of the *Piece*, which fit into the the walls behind it. Interpre- tions for "Arts Magazine" appears to not be art at in Morris' piece seemed entirely active made work sculptures. It wa

became relieved,
changed the
location in the
Marcel D.



winsor 5

Oil on linen, 159.5 x 159.5 cm
Raussmüller Collection



b. 1930 in Nashville (TN)

Between 1949 and 1952 Robert Ryman studied music in his home town of Nashville. In 1952 he moved to New York in order to become a professional musician, and began to study with the jazz pianist Lenny Tristano. Ryman first encountered the New York art world through a job as an attendant at the Museum of Modern Art, where he befriended Dan Flavin, Robert Mangold, Sol LeWitt, and his future wife Lucy Lippard. In 1954 he decided to give up his career as a musician and to work exclusively as a painter. During the following ten years Ryman continued his experimental investigation of painting's foundations as an autodidact.

During his early years Ryman used mostly oil paint, which he often applied in thick brushstrokes to unstretched and unprimed canvases. His work received its first public attention in 1966, when he took part in the important "Systemic Painting" exhibition at the Guggenheim Museum in New York. Although only remotely related, Ryman's work became well known by the end of the sixties within the context of Minimal art.

Beginning in 1965, Ryman began to change from his early thick white brushstrokes and the later smooth white monochromes to paintings that began to use groupings of horizontal bands of paint that varied in thickness from painting to painting. This new systematic approach to painting was a way to further remove any pictorial or illusionist element and further the relationship of paint as paint to the surface. 33 hand-painted bands of paint roughly five centimetres wide make up the horizontal composition of this painting. The brush can be

"it's not a matter of what one paints, but how one paints. it has always been the 'how' of painting that determined the work – the final product."

Robert Ryman



untitled

thing or object to present its own physical form or representational value. Ryman's paintings are like variations on a theme, and his white colour, solid matt, or a weaving of transparent or opaque, veil on PVC or simply thickly painted oil.

If we observe Ryman's paintings on a wall, they appear similar, if not identical, but looking closer, they are different. Ryman is not trying to impress the viewer, rather his works are non-referential, existing as paint on canvas or some other surface. Their materiality is unequivocal, the colour white, in diverse manners, never becoming an error, even

when it is a thin film of PVC, which, slightly curved, creates diaphanous shadows on its own surface, at the edges as well as by the body of air separating the painting from the wall. The plastic film absorbs and radiates light from the surface, which invites a visual investigation.

"Rothko's work might have a similarity with mine in the sense they may both be kind of romantic ... I mean in the sense that Rothko is not a mathematician, his work has very much to do with feeling, with sensitivity."

Robert Ryman

untitled, from “ten vertical constructions”



D 1943 in Brooklyn, NY
d 2008 in New York (NY)

From the artist's notes:
“Ten Vertical Constructions”
1992, from *The Ten*

and continued to explore
the possibilities of this simple
but effective method
of construction.

Sandback has the unique
ability to occupy space with
only invisible elements. His
material was coloured
acrylic yarn, which he employed

to create some interesting pieces in a
series of ten vertical constructions.
A small amount of material and
time were all that was needed to create
these pieces. The artist has used
the same technique in his later work.

He has continued to use this
method of construction to create
interesting and meaningful pieces.
The artist uses colour, texture,
shape, colour and verticality to
create his pieces. He creates
the actual corners of the room and
occupies the space with his art
within the space. The artist has
been creating these pieces for years.
Artist LeWitt declares this space to be
empty and the artist's art to be
to be avoided or left alone.



Installation drawing for Dia:Beacon, 2003



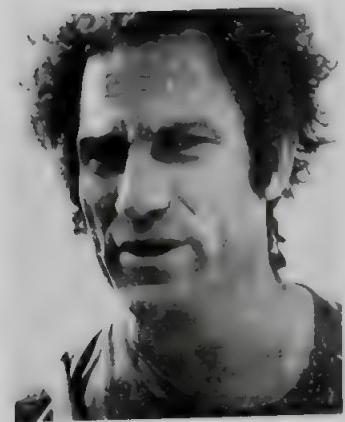
untitled

Lead, steel, 200 x 100 x 6 cm

Berlin, Staatliche Museen zu Berlin – Preußischer Kulturbesitz, Nationalgalerie, Collection Marzona

"In 1967 and 1968, I wrote down a verb list as a way of applying various activities to unspecified materials. To roll, to fold, to bend, to shorten, to shave, to tear, to chip, to split, to cut, to sever ... The language structured my activities in relation to materials which had the same function as transitive verbs."

Richard Serra



b. 1939 in San Francisco (CA)

Much of Serra's work stems from the artist's direct action on a selected material to explore possibilities like transformation, deformation, loss of physical integrity or balance. His sculpture is created using common and non-precious materials, most often the Corten steel used in commercial construction, or in his early work molten lead. Lead is a heavy but soft and malleable metal relatively easy to melt, and when still in a liquid state can be scooped and thrown to harden into lead splashes or drops. In 1968 Serra began heating and throwing lead in an attempt to explore the physicality of the creative act, as well as investigate the possibilities that emerge when metal is freed from its solid state. In a famous photograph taken in the warehouse of the Leo Castelli gallery, Serra appears like a goggled Zeus throwing lead thunderbolts at walls and corners. The resultant lead forms were both the physical evidence of his act and its sculptural surrogate.

Serra also used lead plates and sheets, which he rolled into irregular pipe forms. He combined these forms in pieces like *Prop* (1968), which uses rolled lead as a prop to suspend a lead sheet precariously against a wall, or *Plate, Pole, Prop* (1969–1983), which

instead employs hot rolled steel to hold material against a wall. In the film *Hand Catching Lead* (1968), he is seen trying to catch a piece of lead falling from above, illustrating the effects of gravity and tension.

Untitled is a rectangular plate of lead suspended by a steel cable attached to each side. The tightrope walker in the centre pulls the thick grey mass between two points, creating a visible bulge in the middle of the piece. The effect is surreal because the lead mass pulled up in the middle has the potential for further transformation, an ongoing process of weight.



Splashing, 1968



one ton prop (house of cards)

© The Museum of Modern Art, Gift of the Grinstein Family, New York, 2003

One Ton Prop
Richard Serra
1997
Steel
Dimensions variable
Collection of the artist

...and a house of cards. In their own heavy weight they are fragile. They have their own irreducibility, their own preciousness, or worse, "finish". They are like the thick, unwieldy lead weights of the element of danger. The cards were to fall. This precarious quality is an important element of Serra's work.

Tilted Arc (1981) and the *Torqued Ellipses* (1997), the public outcry that followed through these gigantic works of Corten steel. It was clear from the beginning that the work was going to come down and that when it did, one could see apertures of light, but no holes. In the case of *Tilted Arc*, these qualities of the sculpture were so powerful that they were unprecedented in the United States. Many city workers who entered the building daily felt offended by the size and massiveness of the sculpture and began to complain about its installation. A long process of public hearings and negotiations finally led to its removal from the Federal Plaza in lower Manhattan.

The viewer is taller than the 120-cm plates and can walk around the piece. The viewer is completely surrounded and at the same time tests the skill of the fabricator. In even later pieces such as *Consequence* (2003), installed at the Dia Art Foundation in New York, the viewer walks down a long gap between the two sides of the piece. These works manipulated the viewer's body. The viewer does not respond to Bruce Nauman's *Performance Corridor* made the same year as *One Ton Prop*. Nauman wanted the viewer to be able to experience and view the same action he had earlier performed (and recorded for a video performance) within the piece. In both cases the viewer can participate without entering the work.

Serra's recent work, done in weatherproof steel, has developed an almost architectural quality. The title of this piece initially inspired him because of the way it sounds, and the unimaginable fear of the house of cards falling.

Serra has pushed his aesthetic to the limit, executing every thought and whim with utmost clarity and skill. In *Vice-Versa* (2003) two rectangular sheets of steel are furling like sails. They are immaterial in aesthetic terms. The five furling forms of *Wake* (2003) continue this tendency. In *Blindspot*, also done the same year the curls of steel appear as metal shadows that will always lead the viewer to a blind spot. The spectator is not part of the work, but his relationship is becoming increasingly important.

"I wanted a dialectic between one's perception of the place in totality and one's own relation to the field as walked. The result is a way of measuring oneself against the indeterminacy of the land. I am not interested in looking at sculpture which is solely defined by its internal relationships."

Richard Serra



Free Ride

Painted steel, 203 x 203 x 203 cm

New York, The Museum of Modern Art, Gift of Agnes Gund and purchase



b. 1912 in South Orange (NJ),
d. 1980 in New York (NY)

Tony Smith has always insisted that his art was "not a product of conscious calculation, but prompted by the enigmas and tumult of the unconscious. All my sculpture is on the edge of dreams." Thus Smith's work of the early sixties represented an important link between the Abstract Expressionists' ethos and the new attitude towards the making and meaning of art in the sixties. Smith continued the Expressionists' beliefs in subjectivity, but at the same time also functioned as a reference for younger artists such as Sol LeWitt, Donald Judd or Robert Morris, whose Minimal objects resembled his geometries. Only in retrospect can the systematic methods and concepts of the younger generation be clearly distinguished from Smith's narrative and sometimes theatrical approach to sculpture.

Free Ride, created in 1962, the same year as *Die*, represents Smith's systematic approach to sculpture. Each painted steel unit is 203 centimetres in length, thus creating a modular system that is systematically organized, yet tempered by Smith's post-Expressionist sense of accumulation and content. There is a formal arrangement of units that is both geometric and natural. The sculpture snakes around the three units. The vertical rectangular unit is rotated 90 degrees on one side and looks like the same piece from a different angle. The freedom of irregular form that would define the later minimalist sculptures of Donald Judd and Sol LeWitt is absent here. The black simplicity of *Free Ride* distances it from the influence of David Smith (1906–1965), who, while at that time was still an important figure, Smith's son, David Smith, had already begun

"we think in two dimensions – horizontally and vertically – any angle off that is very hard to remember; for that reason I make models – drawings would be impossible."

Tony Smith

surfaces and post-Cubist references to their past, as well as its own impulsive seek-like surface. Smith's references to the past, however, were not limited to the preceding generation, adds a sort of historical dimension. *Free Ride*, commercially fabricated as "PC SHOT" (Poured Casting) himself,

The Elevens Are Up, 1963, *Die* and *Free Ride* are common that they separate into separate elements of the modular system. In this way, the artist's Smith's work and art is considered to be a bridge between the past and the present. However, the past itself is not the only source of the artist's inspiration. The artist's environment, in this case, is the city of New York, where he spent most of his life. The artist's environment, in this case, is the city of New York, where he spent most of his life.

Smith's work is characterized by a sense of movement and energy, which is reflected in the way he uses space and form. His sculptures are dynamic, expressive, and full of life. They are not just objects, but rather living entities that interact with their surroundings.

Smith's work is also characterized by a sense of humor and wit. He often includes playful elements in his sculptures, such as a small bird perched on a branch or a small animal peeking out from behind a rock. These elements add a touch of whimsy to the otherwise serious and contemplative nature of his work.

Smith's work is a testament to the power of art to inspire and move us. It is a reminder that art is not just about objects, but about the way we experience the world around us. It is a reminder that art is a powerful force that can change our lives and the world around us.



Mirage No. 1

Mineral glass, 9 parts, 92.4 x 646.7 cm overall

Los Angeles, The Museum of Contemporary Art, purchased with funds provided by the Collectors Committee 94.11A-J



D. 1968 in Peasant (SL)
D. 1973 in Tucum Lake (TK)

Monuments". Later he developed an artistic strategy combining different media and different forms of presentation, which has been considered by many scholars as the beginning of a postmodern art practice. He was expanding the role of what the artist could do within his own specific body of work, allowing his various interests to decide the parameters of what constituted an artist's oeuvre.

Mirage No. 1 consists of nine framed mirrors increasing or decreasing in size, depending on your perspective, from one foot to one yard (30.5 to 91.5 cm) in three-inch (7.6 cm) increments. They are all hung from left to right exactly one inch (2.54 cm) above the floor and reflect the space in which they are hung. The serial order of the mirrors breaks up the reflected space, effectively displacing the viewer and literally breaking up his perception of the room and himself.

This concern with visual perception was a lifelong interest of Smithson, who noted its equivalent in nature and used its contradictions as the subject of his work.

Smithson's 1966 essay "Entropy and the New Monuments" dealt with the Second Law of Thermodynamics, which reveals the uni-

versal tendency towards disorder. Smithson felt that since "energy is more lost than obtained", he would exploit this tendency within nature. He wanted to remove his work from the casually organic form of older materials like marble or granite, to the "new" materials of "plastic, chrome and electric light". In *Mirage No. 1* Smithson imposed a modular, serial view of nature within a modern, geometric form of rectangular, mirrored glass.

This work looks forward to Smithson's "Mirror Displacements" (1969/70), which located the mirrors outdoors to reflect nature and combine the hard and new materials with the found and the organic. Smithson also began with these mirror reflections to refer to objects outside the space, leading to his "Nonsites" begun in 1968. The "Nonsites" were the accumulated rocks of his explorations found outside the gallery space, which were brought in and documented with maps explaining their locations in nature. These were followed by his gravitational "Pours" and his last earthworks, like the *Spiral Jetty* (1970) in the Great Salt Lake in Utah.

Smithson, like other people of his generation, had a strong interest in beat poetry, cinema, and science fiction, which is why some of his drawings resemble the science-fiction comics of the late fifties. The nine pieces of *Mirage No. 1* reflect this in a cinematic, frame-by-frame progression of image and time, the image itself made of the reflection of what is in front of it. The mirrors also use the wall the way Carl Andre would use the floor in a serial progression of "mirrored plates", but here throwing the reflection of the floor up onto the wall and revealing what would in effect be covered by an Andre piece. Even here Smithson can be seen to be making "new monuments" of "new materials".



knight's heritage

Wood and acrylic paint, 154 x 154 x 30 cm

Courtesy of Danese Gallery, New York



b. 1921 in Baltimore (MD)

Soon after Anne Truitt had completed her degree in psychology at Bryn Mawr College in 1943, she moved to Boston where she enrolled in evening sculpture classes and began to write poetry. Throughout the forties and fifties Truitt worked in different media and styles, focusing in particular on ink drawings.

She developed her mature sculptural work around 1961 when she established her first studio in Washington. In the

spring of 1963 Truitt had her first solo exhibition at the André Emmerich Gallery, New York, which was viewed as a very successful debut. While Donald Judd reviewed the show negatively, Clement Greenberg, who helped install the exhibition, praised the quality of Truitt's work throughout the sixties.

Reduced forms and simplified colour combinations are seen in *Knight's Heritage*, one of the block-like forms Truitt made, signalling a change in her work from more overt figurative or referential sculptures like *Green Five*, which was made only a year or so earlier. To use an architectural metaphor, this piece is more an apartment block than a skyscraper. The square block appears proportioned differently, not quite a square or a rectangle, a result of the abstract progression of mars orange, yellow and black painted on the surface. The last black section is much thinner than the other two and gives direction and movement to the piece as well. It is representative of the larger, heavier forms that stand directly on the floor with no pedestal and remove the earlier references to tombstones and picket fences. They instead have a more internalized reference to the world.

The title *Knight's Heritage* is suggestive and personal, something that sets Truitt apart from her Minimalist colleagues who preferred to leave their works numbered or untitled. Also different is the rationale for her sculpture. She attempted to reflect states of mind or memory, hers and the viewers', in abstract form. Any form in various colour combinations will suggest different things to different people. Truitt allows this to work as an important element of the sculptures, which is why she has named her works after people, places, numbers or things.

One (1962) has a ghostly, singular presence that is at once "sixties" (though less Minimalist because of its base-like form), but also perhaps ancient. Its simple, stark appearance has a resemblance to Cycladic Greek art; a white alabaster abstract figure seen standing, both head and arms down. The light that falls on it can be called "tragic", a quality she understood from the paintings of Barnett Newman (1905–1970), whose work she greatly admired.

"what i want is colour in three dimensions, colour set free to a point where, theoretically, the support should dissolve into pure colour."

Anne Truitt



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CARL ANDRE

Untitled
1959, graphite on graph paper, 21.25 x 27.5 cm
CA-163.A-D
Private collection

page 2
DAN FLAVIN

Puerto Rican light (to Jeanie Blake)
1965, red, pink and yellow fluorescent light,
121.92 cm
Courtesy Onnasch Collection, Germany

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page 4
RICHARD SERRA

Anvil
1988, steel, 271 x 142 x 5 cm
Hamburg, Hamburger Kunsthalle

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An everyday fluorescent tube fastened diagonally to the wall; untreated wooden beams or metal plates laid in simple patterns on the floor; boxes made of metal or Plexiglas placed in simple arrangements; cubes and other basic geometric forms made of plywood, aluminium or steel – these would be some of the ways to describe the works of numerous artists who were active in New York and Los Angeles in the early 1960s. Characteristic of Minimal Art is the value-free geometric juxtaposition of similar elements. It arose in America largely as a reaction to Abstract Expressionism and Pop Art. The name "Minimal Art" is due to the philosopher of art Richard Wollheim, who however in a 1965 article of this name was seeking to describe not the latest American artistic trend, but a general phenomenon of 20th-century art, namely its minimal artistic content. Art critics eventually came to apply the term to the works of artists such as Carl Andre, Dan Flavin, Donald Judd, Sol LeWitt and Robert Morris.

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